Forest Stand Delineation Report for the Purple Line Project

Montgomery and Prince George's Counties, Maryland

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1 INTRODUCTION

1.1 PROJECT DESCRIPTION

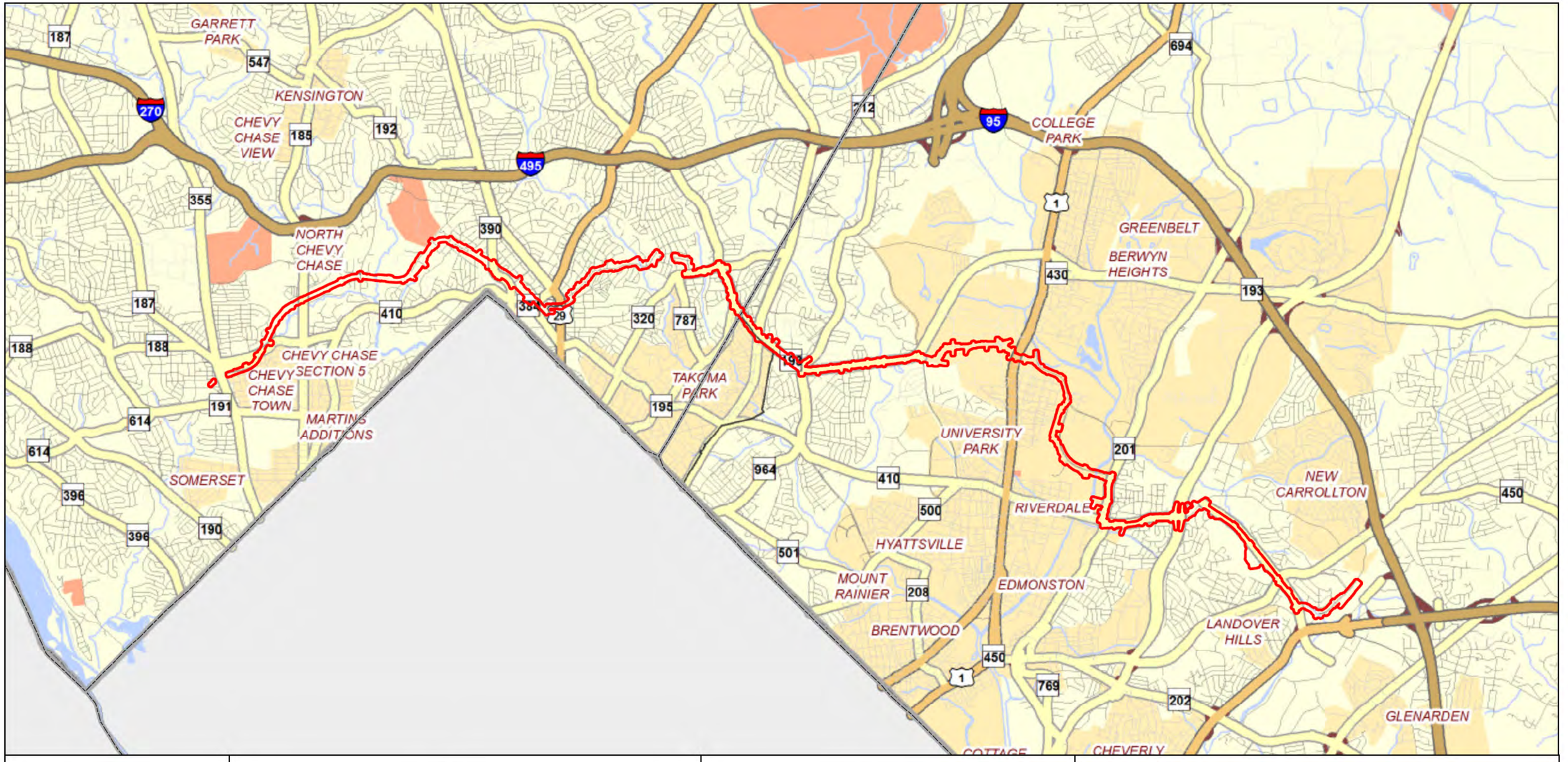
The Purple Line is a proposed 16-mile light rail transit line project in the Maryland suburbs of Washington, DC inside the Capital Beltway (I-495). The Purple Line will extend between Bethesda in Montgomery County and New Carrollton in Prince George's County. It will connect both branches of the Washington Metrorail Red Line, at Bethesda and Silver Spring, the Green Line at College Park, and the Orange Line at New Carrollton; all three Maryland Area Rail Commuter (MARC) lines; local and regional bus systems; and Amtrak's Northeast Corridor.

The purpose of the proposed project is to provide faster, more direct and more reliable east-west transit service in the Purple Line corridor, connecting the major activity centers at Bethesda, Silver Spring, Takoma/Langley Park, College Park, and New Carrollton.

A Forest Stand Delineation (FSD) was conducted in 2010 and 2013 to account for all design refinements and to determine potential impacts to forest resources within the Purple Line limits of disturbance (LOD) and the 100 foot buffer, herein referenced as the FSD study area. Once approved by the Maryland Department of Natural Resources (DNR) Forest Service, the FSD will serve as the foundation of the Forest Conservation Plan (FCP) associated with the proposed project.

1.2 FSD STUDY AREA

The FSD study area for this investigation is an approximately 16-mile, east-west corridor between Bethesda and New Carrollton, Maryland. The FSD study area is a linear patchwork of roadways, railways, and easement corridors through Montgomery and Prince George's Counties, and consists primarily of impervious surfaces (roads, parking lots, a portion of the Gladys Noon Spellman Parkway); a Maryland-National Capital Park and Planning Commission (M-NCPPC) maintenance facility and parkland; residential, commercial, and industrial areas; forested areas; maintained turf and tree lawns; existing railway areas; the Capital Crescent Trail; a portion of the University of Maryland, College Park campus; and several stream crossings. The FSD study area is located within the Anacostia, Potomac and Rock Creek watersheds, all of which are part of the greater Chesapeake Bay watershed.


GARRETT PARK
KENSINGTON
CHEVY CHASE VIEW
NORTH CHEVY CHASE
CHEVY CHASE SECTION 5
CHEVY CHASE TOWN
MARTINS ADDITIONS
SOMERSET
TAKOMA PARK
COLLEGE PARK
GREENBELT
BERWYN HEIGHTS
UNIVERSITY PARK
RIVERDALE
NEW CARROLLTON
HYATTSVILLE
MOUNT RAINIER
EDMONSTON
BRENTWOOD
LANDOVER HILLS
GLENARDEN
CHEVERLY
187
547
270
185
192
495
355
390
410
29
320
787
188
191
614
195
964
410
500
501
208
450
1
769
202
201
193
430
694
95
212
396
190
Purple Line
N
Miles
0
1
2
1 inch= 1 mile
Legend
FSD Study Area
County Boundary
Purple Line
Figure 1: FSD Study Area Map
Montgomery and Prince George's Counties, Maryland

March 2014

2 METHODOLOGY

A full FSD was conducted because this project could potentially impact priority forests, and the proposed Purple Line LOD may require forest clearing above either the breakeven point or the afforestation threshold. The full FSD protocols were implemented according to the guidelines set forth in the *State Forest Conservation Technical Manual* for linear projects (*Technical Manual*; DNR, 1997).

2.1 PRE-FIELD INVESTIGATION

Prior to fieldwork, several resources were used to identify site-specific features and for the creation of the environmental features map. This information was obtained from the following resources:

- *Soil Survey Geographic (SSURGO) Database for Montgomery County, Maryland* [United States Department of Agriculture, Natural Resources Conservation Service (USDA, NRCS), 2007],
- *SSURGO Database for Prince George's County, Maryland* (USDA, NRCS, 2009),
- *NWI Map for Montgomery County, Maryland* (United States Fish and Wildlife Service [USFWS], 1981-2002),
- *NWI Map for Prince George's County, Maryland* (USDA, NRCS, 1981-2002),
- *Q3 Flood Data; Delaware, District of Columbia and Maryland*. National Flood Insurance Program Q3 Flood Data. Disc 15 (Federal Emergency Management Agency [FEMA], 1998),
- *Digital Raster Graph Mosaic of Montgomery County, Maryland* (USDA, NRCS, 2000), and
- *Digital Raster Graph Mosaic of Prince George's County, Maryland* (USDA, NRCS, 2000).

MTA requested information regarding natural resources within the FSD study area through correspondence with the United States Fish and Wildlife Service (USFWS), DNR Wildlife and Heritage Division, and DNR Environmental Review Unit to obtain data about the presence of federally- or state-listed rare, threatened, or endangered flora and fauna and fishery resources within the study area (see Appendix A). Correspondence from these agencies should indicate whether any endangered species, habitats containing endangered species, and/or fishery resources have been recorded within the study area.

As part of the FEIS for the project, all historic resources and archaeological resources within the LOD for these resources (includes 1,000 feet from the edge of the FEIS LOD), which includes the FSD study area, were identified under Section 4 (f) and Section 106. Section 4 (f) applies to the use of the historic property, while Section 106 involves an assessment of adverse effects of an action on historic properties. The Federal Transit Administration (FTA) makes a determination for the historic property of "No Adverse Effect" or "No Historic Properties Afftected" through consultation under Section 106 of the National Historic Preservation Act (NHPA) and the State Historic Preservation Officer (SHPO) concurs with that determination.

2.2 FIELD INVESTIGATION

Forests, as defined by the *Technical Manual* were identified through field reconnaissance and aerials. The *Technical Manual* defines forests as "a biological community dominated by trees and other woody plants covering a land area of 10,000 square feet or greater. Forest includes areas that have at least 100 trees per acres with at least 50% of those having a two-inch or greater diameter at 4.5 feet above the ground and larger and forest areas that have been cut not cleared" (*Technical Manual*; DNR, 1997). The sample plot method was used during the full FSD to characterize forest stands.

Data was collected at one 0.1-acre sample plot for every 4 acres of forest stand, with a minimum of two sample plots for each forest stand. Sample plot locations within each stand were randomly selected prior to fieldwork. The location of each sample plot was recorded with a Global Positioning System (GPS) capable of sub-meter accuracy and documented on the Environmental Features Maps (see Appendix B). Fixed-radius sample plots, measuring 37.25-foot (0.1-acre), were established during the site investigations. Orange pin flags were placed at the center of each sample plot and labeled according to stand and sample plot number. Points along the circumference of the sample plots were flagged at 90-degree intervals using either 1-inch orange tape or orange pin flags. The following information was recorded at each sample plot:

- All trees within the sample plot that exhibited a minimum height of 20 feet and a minimum DBH of two inches;
- Dominant/co-dominant canopy, understory, and herbaceous species;
- Percent cover in canopy, understory, and herbaceous strata at each cardinal point;
- Size class of dominant canopy species;
- Presence of specimen trees;
- Successional stage of the stand;
- Condition and any other general notes about the stand;
- Major invasive plant species;
- Percent invasive cover; and
- Basal area.

A survey was conducted for specimen trees within the FSD study area. The *Technical Manual* defines specimen trees as any tree with a diameter at breast height (DBH) of greater than 30 inches, or 75% of the State Champion of that species. All specimen trees within the FSD study area were identified to species, measured, flagged, and surveyed in the field. In addition, the overall health of each tree was assessed.

The sample plot for each stand is summarized on Sample Plot Datasheets (see Appendix C) and a brief narrative description of each stand is located in Section 3. All photos of existing conditions are located in Appendix D. The Environmental Features Maps that exhibit exisiting conditions discussed within this report are included in Appendix B.

In order to determine if the stand should be classified as a Priority Retention Area, as defined in *The Maryland Forest Conservation Act*, §5-1607, the following information was noted for each sample plot:

- Presence of sensitive areas such as 100-year floodplains, intermittent and perennial streams and their associated buffers, steep slopes, and critical habitats;
- Contiguous forest that connects to large undeveloped or vegetated tracts of land within and adjacent to the site;
- Presence of species listed as State or Federal rare, threatened, and endangered;
- Trees that are part of, or associated with, a historic site or are listed as a State Champion; and,
- Specimen trees.

Each forest stand is given a retention priority of 1, 2, or 3. Priority ranks are defined as follows:

1. Stands which contain Priority Retention Areas (as described above) are ranked as Priority 1 Stands.
2. Stands which contain priority areas identified by a local land use plan, local forest conservation program, or other criteria adopted by a local forest conservation program are ranked as Priority 2 Stands.
3. All other stands are ranked as Priority 3. Each Priority 3 Stand was compared and ranked in order of its functional value relating to water quality protection, wildlife habitat, and at least one other objective such as timber management, aesthetics, or recreation.

Any stand noted to have any of the criteria for a Priority Retention Area is to be left undisturbed unless it can be demonstrated that reasonable efforts were made to protect this area and the plan cannot be reasonably altered.

Wetland delineations were conducted within the FSD study area to verify and supplement data sources in accordance with the Regional Supplements to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region Version 2.0 (USACE 2010) and Eastern Mountains and Piedmont Region (USACE 2010). A jurisdictional determination (JD) was conducted with the United States Army Corps of Engineers (USACE) and Maryland Department of the Environment (MDE) for only those wetlands and waterways located within the FEIS LOD. An Approved JD for these systems was reiceved on February 24, 2014. All other wetlands and waterways located outside of the FEIS LOD, but within the 100 foot FSD buffer, were delineated but not reviewed by the USACE and MDE. All wetlands and waterways are shown on the Environmental Features Maps located in Appendix B.

All identified WUS and wetlands were classified according to *A Classification of Wetland and Deep-Water Habitats in the United States* (USFWS 1979). The wetland indicator status of the observed vegetation was identified using the *National List of Plant Species That Occur in Wetlands: Region 1 – Northeast* (USFWS 1988).

3 FINDINGS

3.1 PUBLISHED INFORMATION

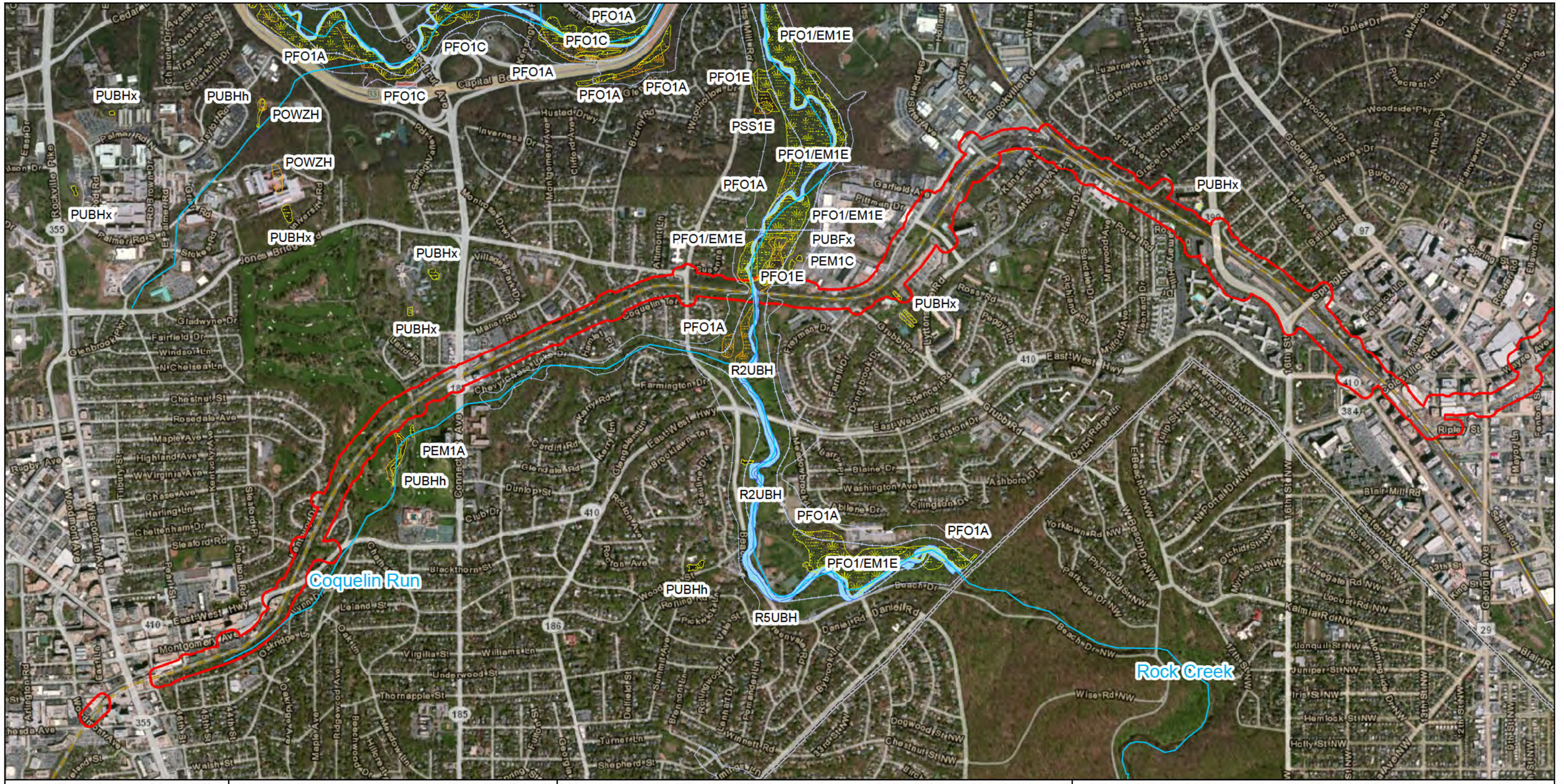
3.1.1 Wetlands and "Waters of the U.S."

The FSD study area is located within the Anacostia, Potomac and Rock Creek watersheds. The *NWI Maps for Montgomery and Prince George's Counties, Maryland* (USFWS, 1981-2002) and Maryland Department of Natural Resources (2005) identify fourteen wetlands and five waterways that intersect the study area (see Figures 2.1 through 2.4).

- Three palustrine forested wetlands (PFO1A, PFO1A/1C, PFO1C)
- Two palustrine emergent wetland (PEM1C)
- Two palustrine forested/palustrine emergent wetlands (PFO1/EM1E)
- Five palustrine unconsolidated bottom wetlands (PUBFx, PUBHx, PUBHh)
- Two palustrine unconsolidated shoreline wetland (PUSCx)
- Two riverine, lower-perennial, open water waterways (R2OWH, R2OWHx)
- Two riverine, lower-perennial, unconsolidated bottom waterway (R2UBH, R2UB1/2)
- One riverine, upper-perennial, open water waterway (R3OWH)

3.1.2 Floodplains

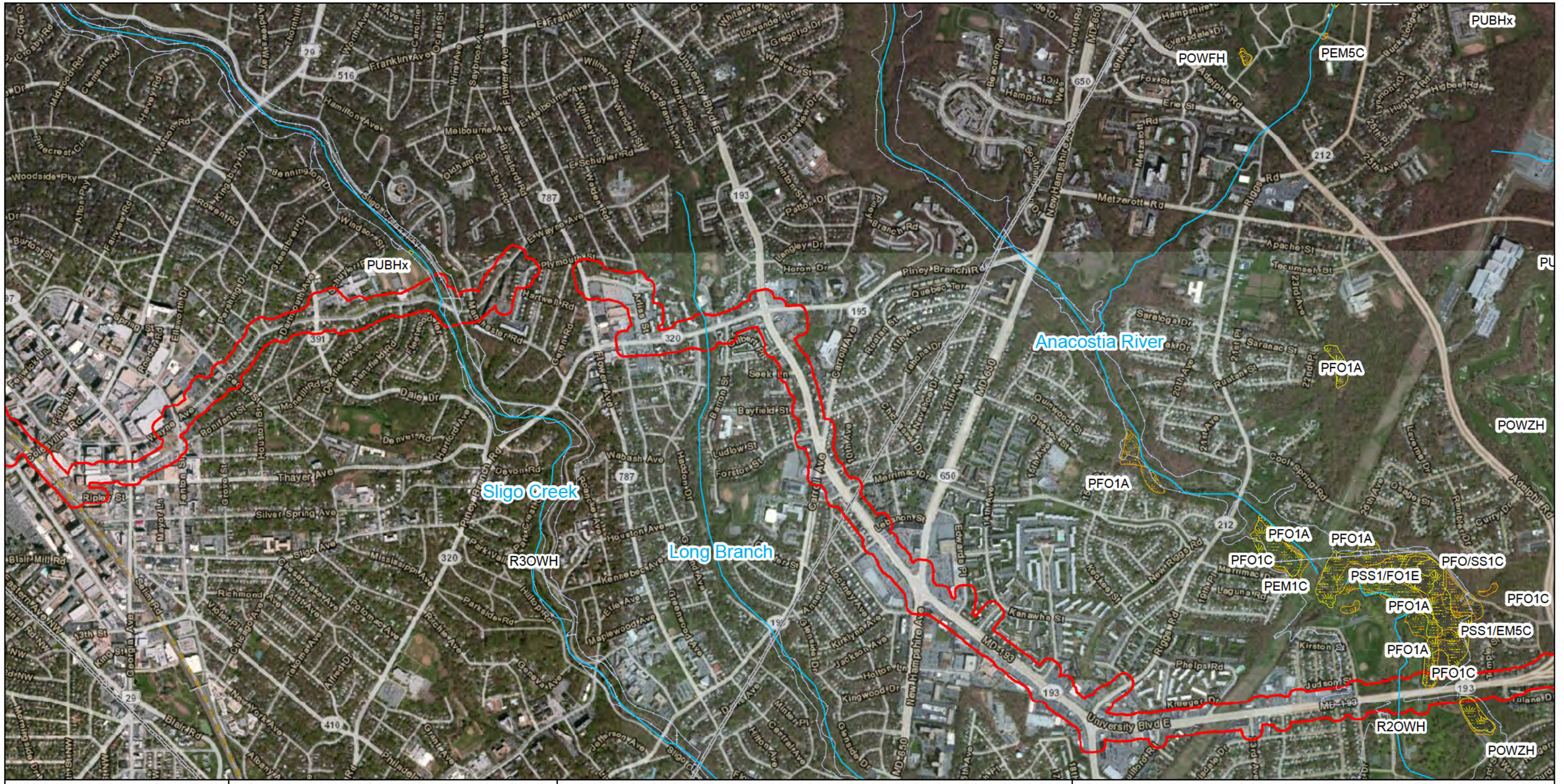
The *Q3 Flood Data; Delaware, District of Columbia and Maryland* (FEMA, 1998) indicates that the FSD study area intersects the 100-year floodplains of Northwest Branch, Northeast Branch, Paint Branch, Sligo Creek, and Rock Creek (see Figures 2.1 through 2.4).



Purple Line

Figure 2.1: NWI/DNR Wetlands & National Flood Insurance Rate Map

Montgomery and Prince George's Counties, Maryland



N

Miles

0 0.25 0.5

1 inch= 0.25 mile

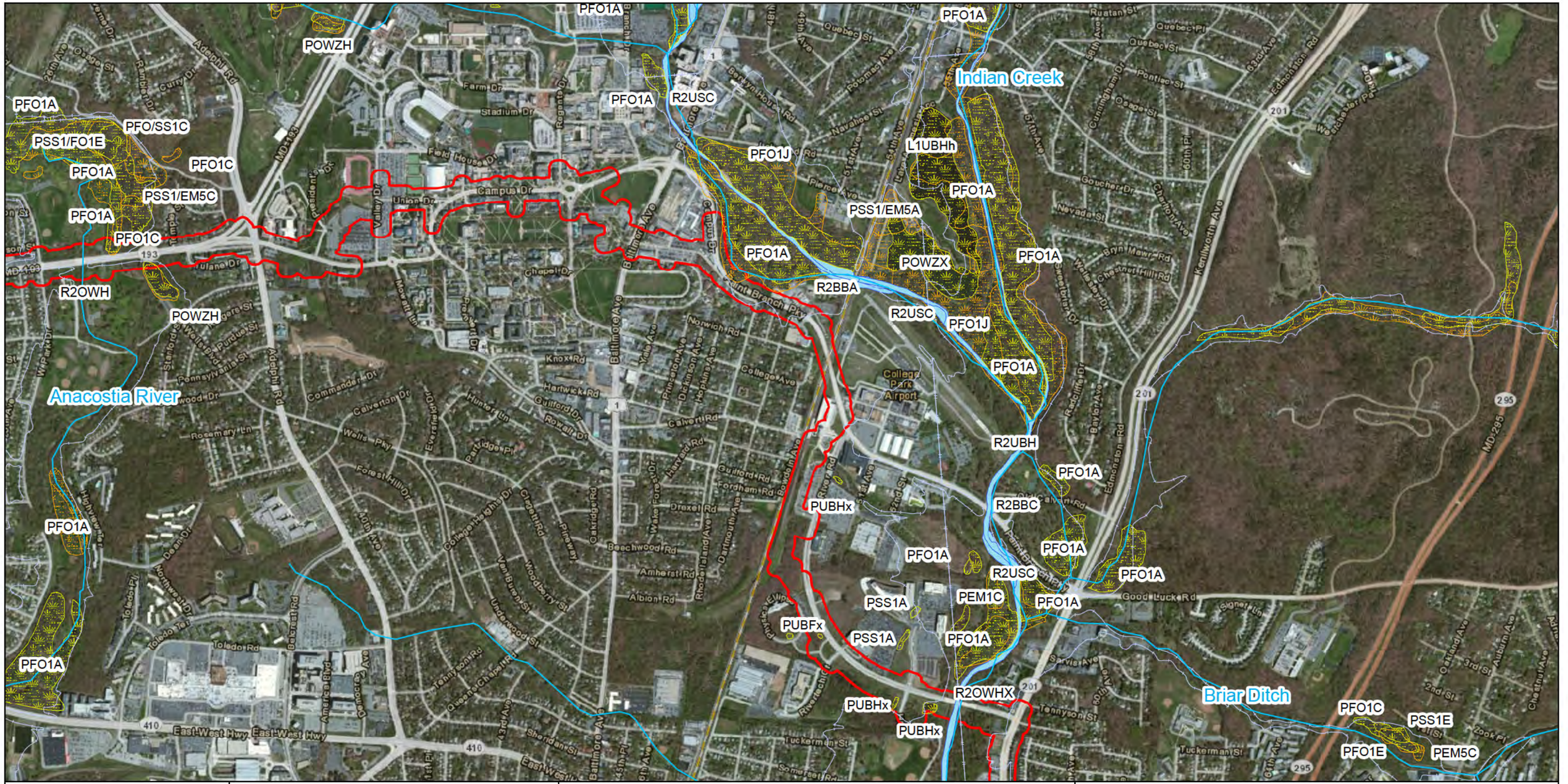
Legend

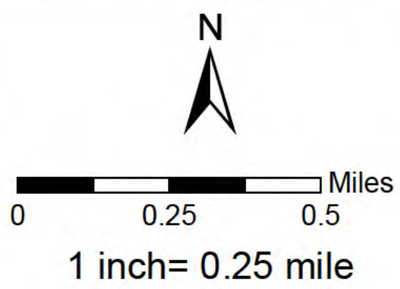
- FSD Study Area
- County Boundary
- Streams
- NWI Wetlands
- DNR Wetlands
- 100-year Floodplain

Purple Line

Figure 2.2: NWI/DNR Wetlands & National Flood Insurance Rate Map

Montgomery and Prince George's Counties, Maryland



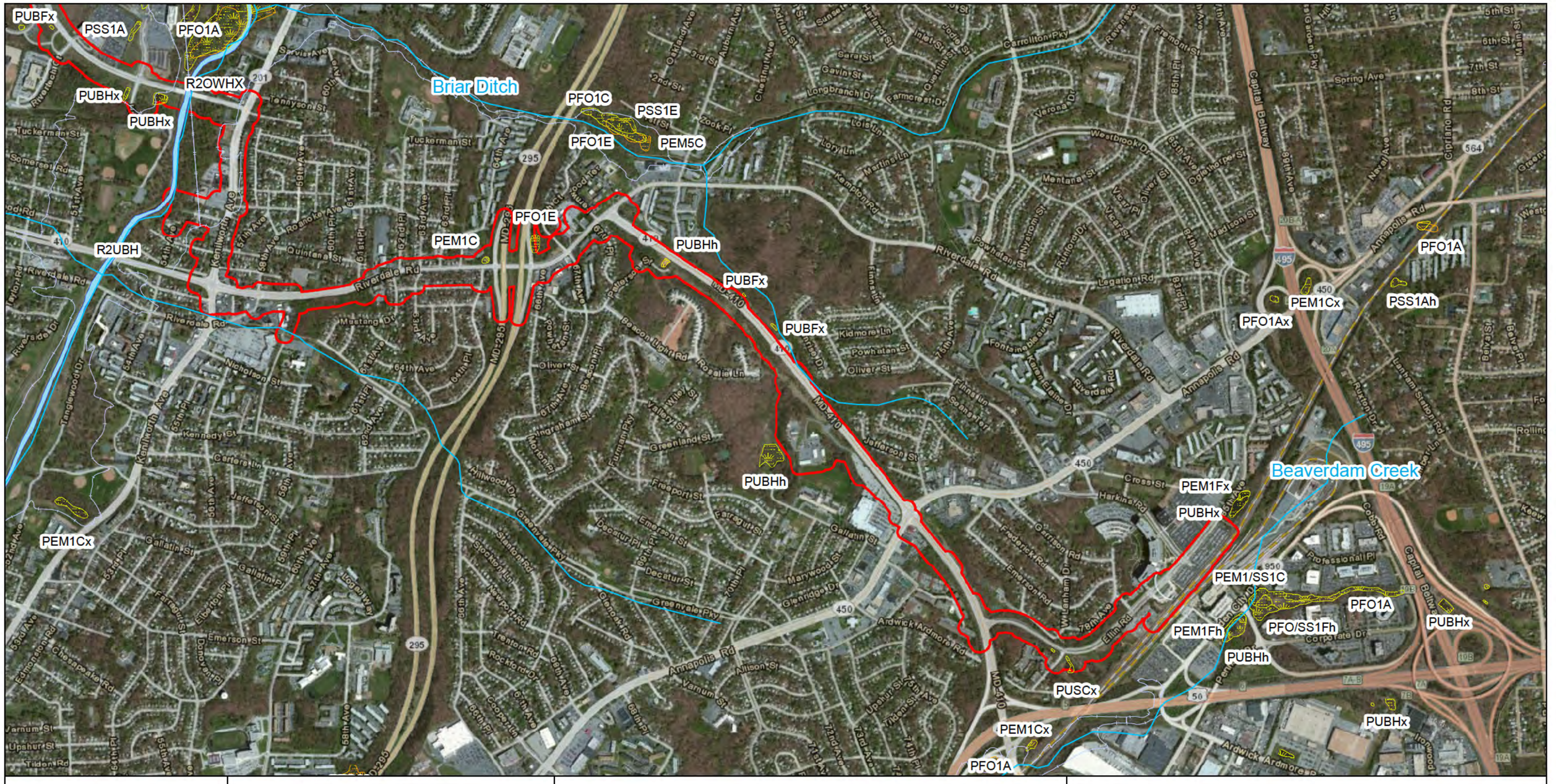


Legend

- FSD Study Area
- County Boundary
- Streams
- NWI Wetlands
- DNR Wetlands
- 100-year Floodplain

Purple Line
Figure 2.3: NWI/DNR Wetlands & National Flood Insurance Rate Map

Montgomery and Prince George's Counties, Maryland



1 inch= 0.25 mile

Legend

- FSD Study Area
- County Boundary
- Streams
- NWI Wetlands
- DNR Wetlands
- 100-year Floodplain

Purple Line

Figure 2.4: NWI/DNR Wetlands & National Flood Insurance Rate Map

Montgomery and Prince George's Counties, Maryland

3.1.3 Soils

The *SSURGO Database for Montgomery County, Maryland* (USDA, NRCS, 2007) and *SSURGO Database for Prince George's County, Maryland* (USDA, NRCS, 2009) indicate that twenty-three soil series occur within the FSD study area. Soil type boundaries are depicted on the Environmental Features Maps in Appendix B. The following is a description of the fifty-one soil types within the study area:

- Aquasco-Urban land complex (AuB) – 0 to 5 percent slopes; somewhat poorly drained soils found in Coastal Plain upland areas on broad interstream divides
    - 65% Aquasco, 30% Urban land
- Beltsville – Urban land complex (BuB) – 0 to 5 percent slopes; moderately well drained soils found in costal plain, upland areas on broad interstream divides
    - 50% Beltsville, 40% Urban land
- Brinklow-Blocktown channery silt loams (16D) – 15 to 25 percent slopes; well drained soils found on ridge crests and side slopes of dissected landscapes in the Piedmont Plateau
    - 50% Brinklow, 30% Blocktown
- Chillum-Urban land complex (CbB) – 0 to 5 percent slopes; well drained soils found on dissected upland areas within the Coastal Plain
    - 40% Chillum, 40% Urban land
- Chillum-Urban land complex (CbD) – 5 to 15 percent slopes; well drained soils found on dissected upland areas within the Coastal Plain
    - 50% Chillum, 30% Urban land
- Christiana-Downer complex (CcC) – 5 to 10 percent slopes; moderately well drained to well drained soils found on hillocks, knolls, ridges and broad interfluves within the Northern Atlantic Coastal Plain
    - 45% Christiana, 30% Downer
- Christiana-Downer complex (CcD) – 10 to 15 percent slopes; moderately well drained to well drained soils found on hillocks, knolls, ridges and broad interfluves within the Northern Atlantic Coastal Plain
    - 50% Christiana, 35% Downer
- Christiana-Downer complex (CcE) – 15 to 25 percent slopes; moderately well drained to well drained soils found on hillocks, knolls, ridges and broad interfluves within the Northern Atlantic Coastal Plain
    - 45% Christiana, 35% Downer
- Christiana-Downer-Urban land complex (CdD) – 5 to 15 percent slopes; moderately well drained to well drained soils found on hillocks, knolls, ridges and broad interfluves within the Northern Atlantic Coastal Plain
    - 30% Christiana, 25% Downer, 20% Urban land
- Christiana-Downer-Urban land complex (CdE) – 15 to 25 percent slopes; moderately well drained to well drained soils found on hillocks, knolls, ridges and broad interfluves within the Northern Atlantic Coastal Plain
    - 35% Christiana, 30% Downer, 20% Urban land

- Codorus and Hatboro soils (CF) – frequently flooded; poorly drained to moderately well drained soils found on nearly level slopes of floodplains where flooding is common
    - 40% Codorus, 40% Hatboro
- Codorus-Hatboro-Urban land complex (Ch) – frequently flooded; poorly drained to moderately well drained soils found on nearly level slopes of floodplains where flooding is common
    - 30% Codorus, 30% Hatboro, 30% Urban land
- Codorus silt loam (53A) – 0 to 3 percent slopes, occasionally flooded; moderately well drained soils formed from recently deposited alluvial materials derived from upland soil materials and located on the nearly level slopes of floodplains
    - 90% Codorus
- Elsinboro sandy loam (EsA) – 0 to 2 percent slopes; well drained soils formed from alluvium on stream terraces and found in the northern part of the Piedmont and Blue Ridge and extend along some major streams into the Atlantic Coastal Plain
    - 95% Elsinboro
- Elsinboro sandy loam (EsB) – 2 to 5 percent slopes; well drained soils formed from alluvium on stream terraces and found in the northern part of the Piedmont and Blue Ridge and extend along some major streams into the Atlantic Coastal Plain
    - 95% Elsinboro
- Elsinboro-Urban land complex (EuB) – 0 to 5 percent slopes; well drained soils formed from alluvium on stream terraces and found in the northern part of the Piedmont and Blue Ridge and extend along some major streams into the Atlantic Coastal Plain
    - 65% Elsinboro, 30% Urban land
- Fallsington-Urban land complex (FbB) – 0 to 5 percent slopes; poorly drained soils found in drainageways, depressions, and swales
    - 50% Fallsington, 30% Urban land
- Gaila silt loam (1B) – 3 to 8 percent slopes; well drained soils found on broad ridgetops and side slopes in the uplands
    - 95% Gaila
- Gaila silt loam (1C) – 8 to 15 percent slopes; well drained soils found on nearly level to very steep uplands of the northern part of the Piedmont Plateau
    - 95% Gaila
- Gaila-Urban land complex (7UC) – 8 to 15 percent slopes, well drained soils
    - 50% Gaila, 45% Urban land
- Galestown-Urban land complex (GbD) – 5 to 15 percent slopes, somewhat excessively drained soils found on marine terraces, uplands, or end moraines located within the Coastal Plain
    - 65% Galestown, 25% Urban land
- Glenelg silt loam (2B) – 3 to 8 percent slopes; well drained soils that are found on nearly level to very steep slopes in well dissected uplands of the Northern Piedmont Plateau and the Blue Ridge
    - 95% Glenelg
- Glenelg silt loam (2C) – 8 to 15 percent slopes, well drained soils that are found on nearly level to very steep slopes in well dissected uplands of the Northern Piedmont Plateau and the Blue Ridge
    - 95% Glenelg

- Glenelg-Urban land complex (2UB) – 0 to 8 percent slopes, well drained soils that are found on nearly level to very steep slopes in well dissected uplands of the Northern Piedmont Plateau and the Blue Ridge
    - 50% Glenelg, 45% Urban land
- Glenelg-Urban land complex (2UC) – 8 to 15 percent slopes; well drained soils that are found on nearly level to very steep slopes in well dissected uplands of the Northern Piedmont Plateau and the Blue Ridge
    - 50% Glenelg, 45% Urban land
- Glenelg-Wheaton-Urban land complex (GfB) – 0 to 8 percent slopes; well drained soils that are found on nearly level to very steep slopes in well dissected uplands of the Northern Piedmont Plateau and the Blue Ridge
    - 45% Glenelg, 30% Wheaton, 25% Urban land
- Glenville silt loam (5B) – 3 to 8 percent slopes; moderately well drained soils found in low ares along uplands or in drainageways
    - 95% Glenville
- Hatboro silt loam (54A) – 0 to 3 percent slopes, frequently flooded; poorly drained soils found on nearly level floodplain areas
    - 100% Hatboro
- Issue-Urban land complex (Iu) – occasionally flooded; somewhat poorly drained soils located on floodplains within the Coastal Plain
    - 60% Issue, 30% Urban land
- Matapeake silt loam (MpB) – 2 to 5 percent slopes; well drained soils located in broad interstream divides, interfluves and fluviomarine terraces
    - 85% Matapeake
- Russett-Christiana-Urban land complex (RuB) – 0 to 5 percent slopes; moderately well drained soils located on backslopes and concave uplands within the Northern Mid-Atlantic Coastal Plain
    - 30% Russett, 30% Christiana, 30% Urban land
- Sassafras-Urban land complex (SnB) – 0 to 5 percent slopes; well drained soils located on summits and side slopes within the Coastal Plain
    - 45% Sassafras, 35% Urban land
- Udorthents, highway (UdaF) – 0 to 65 percent slopes
    - 100% Udorthents, highway
- Udorthents, loamy (UdbD) – 5 to 15 percent slopes, well drained soils found in broad interstream divides
    - 90% Udorthents
- Udorthents-Urban land complex (UduB) – 0 to 5 percent slopes
    - 70% Udorthents, reclaimed gravel pits, 30% Urban land
- Urban land (Un/400) – Urban land
- Urban land-Beltsville complex (UrbB) – 0 to 5 percent slopes; moderately well drained soils found in upland, broad interstream divides within the Coastal Plain
    - 80% Urban land, 15% Beltsville
- Urban land-Christiana-Downer complex (UrcD) – 5 to 15 percent slopes; moderately well drained to well drained soils found on hillocks, knolls, ridges and broad interfluves within the Northern Atlantic Coastal Plain
    - 75% Urban land, 15% Christiana, 10% Downer

- Urban land-Elsinboro complex (UreB) – 0 to 5 percent slopes; well drained soils formed from alluvium on stream terraces and found in the northern part of the Piedmont and Blue Ridge and extend along some major streams into the Atlantic Coastal Plain
    - 80% Urban land, 20% Elsinboro
- Urban land-Issue complex (UrkB) – 0 to 5 percent slopes, occasionally flooded; somewhat poorly drained soils located on floodplains within the Coastal Plain
    - 85% Urban land, 15% Issue
- Urban land-Russett-Christiana complex (UrrB) – 0 to 5 percent slopes; moderately well drained soils located on backslopes and concave uplands within the Northern Mid-Atlantic Coastal Plain
    - 80% Urban land, 10% Christiana, 10% Russett
- Urban land-Sassafras complex (UrsB) – 0 to 5 percent slopes; well drained soils located on summits and side slopes within the Coastal Plain
    - 80% Urban land, 15% Sassafras
- Urban land-Wheaton complex (67UB) – 0 to 8 percent slopes; well drained soils that are found nearly level to sloping on uplands within the Piedmont Plateau
    - 60% Urban land, 25% Wheaton
- Urban land-Woodstown complex (UrwB) – 0 to 5 percent slopes; moderately well drained soils found on upland marine terraces and old stream terraces within the Coastal Plain
    - 80% Urban land, 20% Woodstown
- Urban land-Zekiah complex (UrzA) – 0 to 2 percent slopes, frequently flooded; poorly drained soils found on floodplains within the Coastal Plain
    - 80% Urban land, 15% Zekiah
- Water (W) – Water (100%)
- Wheaton silt loam (65B) – 0 to 8 percent slopes; well drained soils
    - 100% Wheaton
- Woodstown sandy loam (WoB) – 2 to 5 percent slopes; moderately well drained soils found on upland marine terraces and old stream terraces within the Coastal Plain
    - 75% Woodstown
- Woodstown- Urban land complex (WuB) – 0 to 5 percent slopes; moderately well drained soils found in broad interstream divides, swales, interfluves, fluviomarine terraces, drainhead complexes, and depressions
    - 50% Woodstown, 35% Urban land
- Zekiah and Issue soils (Zs) – frequently flooded; somewhat poorly drained to poorly drained soils found on floodplains, drainageways, and drainhead complexes
    - 40% Zekiah, 40% Issue
- Zekiah-Urban land complex (Zn) – frequently flooded; poorly drained soils found on floodplains within the Coastal Plain
    - 40% Zekiah, 30% Urban land

Hydric Soils of Prince George's County, Maryland (USDA, NRCS, 2009) and *Hydric Soils of Montgomery County, Maryland* (USDA, NRCS, 2007) list many of these soils as having hydric inclusions (Table 3-1). The Aquasco, Beltsville, Chillum, Christiana, Codorus, Gaila, Glenelg, Hatboro, Issue, Russett, Wheaton, Woodstown, and Zekiah soil series have a reported K-value

(erodability factor) greater than 0.35, which indicates that the soils pose construction-related hazards. The Gaila, Glenelg, Matapeake, and Woodstown soil series are listed as prime or other important farmlands in *SSURGO Database for Montgomery County, Maryland* (USDA, NRCS, 2007) and *Prince George's County, Maryland* (USDA, NRCS, 2009). Table 3-1 provides additional information and limitations for each soil class present within the study area.

Steep slopes occur within the study area and are depicted on the Environmental Features Maps in Appendix B.

Table 3-1
SOIL CHARACTERISTICS AND LIMITATIONS

Map Symbol	Map Unit Name	% Hydric	K-Value	Prime or Unique Farmland	Restricitons and Limitations
1B	Gaila silt loam, 3-8% slopes	5	0.24-0.37	Yes	Somewhat limited due to frost action
1C	Gaila silt loam, 8-15% slopes	5	0.24-0.37	No	Somewhat limited due to frost action and slope
2B	Glenelg silt loam, 3-8% slopes	5	0.32-0.49	Yes	Somewhat limited due to frost action
2C	Glenelg silt loam, 8-15% slopes	5	0.32-0.49	No	Somewhat limited due to frost action and slope
2UB	Glenelg-Urban land complex, 0-8% slopes	5	0.32-0.49	No	Somewhat limited due to frost action
2UC	Glenelg-Urban land complex, 8-15% slopes	5	0.32-0.49	No	Somewhat limited due to frost action and slope
5B	Glenville silt loam, 3-8% slopes	5	0.24-0.32	No	Very limited due to wetness and frost action
7UC	Gaila-Urban land complex, 8-15% slopes	5	0.24-0.37	No	Somewhat limited due to frost action and slope
16D	Brinklow-Blocktown channery silt loam, 15-25% slopes	5	0.10-0.24	No	Very limited due to slope, depth to bedrock, and frost action
53A	Codorus silt loam, 0-3% slopes, occasionally flooded	10	0.24-0.49	No	Very limited due to flooding and frost action
54A	Hatboro silt loam, 0-3% slopes, frequently flooded	100	0.20-0.49	No	Very limited due to flooding, wetness, and frost action

Table 3-1 SOIL CHARACTERISTICS AND LIMITATIONS					
Map Symbol	**Map Unit Name**	**% Hydric**	**K-Value**	**Prime or Unique Farmland**	**Restricitons and Limitations**
65B	Wheaton silt loam, 0-8% slopes	0	0.37-0.49	No	Somewhat limited due to frost action
67UB	Urban land-Wheaton complex, 0-8% slopes	5	0.37-0.49	No	Somewhat limited due to frost action
400	Urban land	N/A	N/A	N/A	N/A
AuB	Aquaso-Urban land complex, 0-5% slopes	0	0.20-0.37	No	Very limited due to frost action, low strengh, depth to thick cemented pan, and depth to saturated zone
BuB	Beltsville-Urban land complex, 0-5% slopes	5	0.20-0.37	No	Somewhat limited due to depth to thick cemented pan, frost action, and depth to saturated zone
CbB	Chillum-Urban land complex, 0-5% slopes	0	0.20-0.37	No	Somewhat limited due to low strength and frost action
CbD	Chillum-Urban land complex, 5-15% slopes	0	0.20-0.37	No	Somewhat limited due to low strength and frost action
CcC	Christiana-Downer complex, 5-10% slopes	5	0.43-0.49	No	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CcD	Christiana-Downer complex, 10-15% slopes	5	0.43-0.49	No	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CcE	Christiana-Downer complex, 15-25% slopes	5	0.43-0.49	No	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CdD	Christiana-Downer-Urban land complex, 5-15% slopes	0	0.43-0.49	No	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CdE	Christiana-Downer-Urban land complex, 15-25% slopes	5	0.43-0.49	No	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CF	Codorus and Hatboro soils, frequently flooded	40	0.37	No	Very limited due to flooding, frost action, and depth to saturated zone
Ch	Codorus-Hatboro-Urban land complex, frequently flooded	30	0.37	No	Very limited due to flooding, frost action, and depth to saturated zone

Table 3-1 SOIL CHARACTERISTICS AND LIMITATIONS					
Map Symbol	**Map Unit Name**	**% Hydric**	**K-Value**	**Prime or Unique Farmland**	**Restricitons and Limitations**
EsA	Elsinboro sandy loam, 0-2% slopes	0	0.17-0.28	No	Somewhat limted due to frost action and flooding
EsB	Elsinboro sandy loam, 2-5% slopes	0	0.17-0.28	No	Somewhat limted due to frost action and flooding
EuB	Elsinboro-Urban land complex, 0-5% slopes	0	0.17-0.28	No	Somewhat limted due to frost action and flooding
FbB	Fallsington-Urban land complex, 0-5% slopes	55	0.10-0.24	No	Very limited due to ponding, depth to saturated zone, and frost action
GbD	Galestown-Urban land complex, 5-15% slopes	0	0.10	No	Somewhat limited due to slope
GfB	Glenelg-Wheaton-Urban land complex, 0-8% slopes	0	0.32-0.49	Yes	Somewhat limited due to low strength and frost action
Iu	Issue-Urban land complex, occasionally flooded	10	0.37	No	Very limited due to flooding, depth to saturation zone, and frost action
MpB	Matapeake silt loam, 2-5% slopes	0	0.20-0.37	Yes	Very limited due to frost action
RuB	Russett-Christiana-Urban land complex, 0-5% slopes	0	0.15-0.37	No	Somewhat limited due to frost action, low strength, and depth to saturation zone
SnB	Sassafras-Urban land complex, 0-5% slopes	0	0.17-0.32	No	Somewhat limited due to frost action
UdaF	Udorthents, highway, 0-65% slopes	N/A	N/A	N/A	N/A
UdbD	Udorthents, loamy, 5-15% slopes	0	0.37	No	Somewhat limited due to frost action and slope
UduB	Udorthents-Urban land complex, 0-5% slopes	0	0.32	No	Somewhat limited due to frost action
Un	Urban land	N/A	N/A	N/A	N/A

Table 3-1 SOIL CHARACTERISTICS AND LIMITATIONS					
Map Symbol	**Map Unit Name**	**% Hydric**	**K-Value**	**Prime or Unique Farmland**	**Restricitons and Limitations**
UrbB	Urban land-Beltsville comlex, 0-5% slopes	0	0.15-0.49	No	Somewhat limited due to a thick cemented pan, frost action, and depth to saturated zone
UrcD	Urban land-Christiana-Downer complex, 5-15% slopes	0	0.32-0.55	No	Somewhat limited due to frost action, low strength, slope, and depth to saturation zone
UreB	Urban land-Elsinboro complex, 0-5% slopes	0	0.17-0.28	No	Somewhat limited due to frost action and flooding
UrkB	Urban land-Issue Complex, 0-5% slopes	0	0.37	No	Very limited due to flooding, depth to saturation zone, and frost action
UrrB	Urban land-Russett-Christiana complex, 0-5% slopes	0	0.15-0.37	No	Somewhat limited due to frost action, low strength, and depth to saturation zone
UrsB	Urban land-Sassafras complex, 0-5% slopes	0	0.15-0.37	No	Somewhat limited due to frost action
UrwB	Urban land-Woodstown complex, 0-5% slopes	0	0.10-0.37	No	Somewhat limited due to shrink-swell, frost action, and depth to saturated zone
UrzA	Urban land-Zekiah complex, 0-2% slopes, frequently flooded	0	0.24-0.49	No	Very limited due to ponding, depth to saturated zone, frost action, and flooding
W	Water	N/A	N/A	N/A	N/A
WoB	Woodstown sandy loam, 2-5% slopes	5	0.10-0.37	Yes	Somewhat limited due to shrink-swell, frost action, and depth to saturated zone
WuB	Woodstown-Urban land complex, 0-5% slopes	5	0.10-0.37	Yes	Somewhat limited due to shrink-swell, frost action, and depth to saturated zone
Zn	Zekiah-Urban land complex, frequently flooded	55	0.24-0.49	No	Very limited due to ponding, depth to saturated zone, frost action, and flooding
ZS	Zekiah and Issue soils, frequently flooded	60	0.24-0.49	No	Very limited due to ponding, depth to saturated zone, frost action, and flooding

3.1.4 Rare, Threatened, and Endangered Species

The Nongame and Endangered Species Conservation Act (Annotated Code of Maryland 10-2A-01) governs the listing of rare, threatened, and endangered (RTE) species in the State of Maryland. The purpose of this law is to provide policy regarding the conservation of species of wildlife for human enjoyment and scientific purposes, as well as to ensure their perpetuation as viable components of their ecosystems. The Act states that "species of wildlife and plants normally occurring within the State which may be found to be threatened or endangered within the State should be afforded the protection necessary to maintain and enhance their numbers."

MTA requested information from the USFWS and DNR's Wildlife and Heritage Division to identify any RTE species in or near the FSD study area. In the October 27, 2011 letter from USFWS, the USFWS stated that there are no federally proposed or listed endangered or threatened species known to exist within the project are; therefore, no Biological Assessment or further Section 7 Consultation with the USFWS is required. In the October 5, 2011, letter from NMFS, it is stated that no federally listed or proposed threatened or endangered species and/or designated critical habitat for listed species under NMFS jurisdiction are known to exist in the vicinity of the proposed project; therefore, no further coordination with NMFS is needed. The October 26, 2011, letter from MDNR WHS did not reference any state listed species occurring within the study area. However, in a letter dated October 26, 2011, MDNR indicated that there is a waterbird (heron) colony located within the forested floodplain of Coquelin Run, in close proximity to the study area. The letter states that heronries located outside the CBCA are a rare resource of particular interest that should be protected. Disturbance to nesting herons is a violation of the U.S. Migratory Bird Treaty Act. Disturbance is defined as cutting nest trees, cutting nearby trees, or nearby construction that causes abandonment of chicks by the adults. All agency correspondence is located in Appendix A of this document.

In response to comments received after the FEIS was published, USFWS issued a letter on January 7, 2014 (See Appendix A) regarding both the Hay's Spring and Kenk's amphipods. The Hay's Spring amphipod is currently listed as federally endangered and the Kenk's amphipod is a candidate species for a federal listing. The letter states that neither species will be affected by the Purple Line project.

3.1.5 Cultural and Historic Resources

A draft Section 4(f) and Section 106 Technical Report were prepared as part of the FEIS. The information presented in this section is a summary of the findings included within the Section 106 techncial report (*Section 106 Assessment of Effects for Historic Properties* 2013). A total of 23 historic properties were located within the Purple Line's Area of Potential Effect (APE), which includes the FSD study area. Of the 23 National Register-listed eligible or potentially eligible properties, it is anticipated that three properties will be adversely affected. The adverse effects will occur to the Metropolitan Branch Baltimore and Ohio Railroad, Talbot Avenue Bridge, and the Falkland Apartments (near the intersection of 16th Street/MD 390 and Colesville Road/MD 384 in Montgomery County).

3.2 FOREST STAND CHARACTERIZATIONS

Field investigations were conducted in 2010 and 2013 during which 56 forest stands were identified. Each stand was characterized by collecting one sample plot for every four acres of forest stand, with a minimum of two sample plots for each stand. Each stand is delineated on an Environmental Features Map included in Appendix B and is described in the following narrative. Unless stated otherwise, all stands extend beyond the FSD study area boundary. Stands were labeled starting at the eastern end of the corridor, in Prince George's County, and moving west into Montgomery County. Stands 1 through 30, and 52 through 56 are located in Prince George's County (see Maps 12 through 25); stands 31 through 51 are located in Montgomery County (see Maps 1 through 11). Sample plot datasheets are provided in Appendix C.

Stand 1

Stand 1 is located in the eastern-most portion of the FSD study area in Prince George's County and is bounded by 78th Street to the northwest and west, Emerson Place to the northeast, and Ellin Road to the south. Approximately 1.48 acres of Stand 1 is located in the FSD study area. The mixed-deciduous stand is dominated by willow oak (*Quercus phellos*), sweetgum (*Liquidambar styraciflua*), and southern red oak (*Quercus falcata*). No specimen trees were identified in Stand 1. Table 3-2 summarizes the investigation results.

Table 3-2
GENERAL CHARACTERISTICS OF STAND 1

Topography	Gentle to steep slope northwest to southeast	
Approximate size within FSD study area	1.48 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Blackgum	*Nyssa sylvatica*
	Black locust	*Robinia pseudoacacia*
	Northern red oak	*Quercus rubra*
	Red maple	*Acer rubrum*
	Southern red oak	*Quercus falcata*
	Sweetgum	*Liquidambar styraciflua*
	White pine	*Pinus strobus*
	Willow oak	*Quercus phellos*
Size class of dominant species	12 to 29.9 inches DBH	
Basal area	100 square feet/acre	
Percent canopy closure	80%	
Common understory species	Common greenbrier	*Smilax rotundifolia*
	Grape sp.	*Vitis* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*Rosa multiflora*
	Poison ivy	*Toxicodendron radicans*
	Red maple	*A. rubrum*
	Southern arrowwood	*Viburnum dentatum*

Table 3-2 GENERAL CHARACTERISTICS OF STAND 1		
Percent understory cover	60%	
Common herbaceous species	English ivy	*Hedera helix*
	Japanese honeysuckle	*L. japonica*
	Onion sp.	*Allium* sp.
	Poison ivy	*Toxicodendron radicans*
Percent herbaceous cover	100%	
Invasive exotic species	Callery pear	*Pyrus calleryana*
	English ivy	*Hedera helix*
	Exotic wisteria sp.	*Wisteria* sp.
	Japanese honeysuckle	*L. japonica*
	Lesser periwinkle	*Vinca minor*
	White mulberry	*Morus alba*
	Multiflora rose	*Rosa multiflora*
Percent invasive cover	15% (tree), 43% (understory), 68% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	3	

Stand 2

Stand 2 is located in the eastern-most portion of the FSD study area in Prince George's County and is bounded by Ellin Road to the north, MD 410 to the west, and residential neighborhoods to the south. Approximately 1.92 acres of Stand 2 is located in the FSD study area. The deciduous stand is dominated by northern red oak (*Quercus rubra*), and white oak (*Quercus alba*). Two specimen trees were observed within the northeast portion of Stand 2. Table 3-3 summarizes the investigation results.

Table 3-3 GENERAL CHARACTERISTICS OF STAND 2		
Topography	Flat to gently sloping southwest to northeast	
Approximate size within FSD study area	1.92 acres	
Wetlands	One palustrine, emergent (PEM) wetland.	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) waterway.	
Successional stage	Early	
Dominant species/co-dominant species	Blackgum	*Nyssa sylvatica*
	Northern red oak	*Quercus rubra*
	Red maple	*Acer rubrum*
	Sweetgum	*Liquidambar styraciflua*
	White mulberry	*Morus alba*
	White oak	*Quercus alba*
Size class of dominant species	12 to 29.9 inches DBH	

Table 3-3 GENERAL CHARACTERISTICS OF STAND 2		
Basal area	145 square feet/acre	
Percent canopy closure	100%	
Common understory species	American holly	*Ilex opaca*
	Blackgum	*N. sylvatica*
	Common greenbrier	*Smilax rotundifolia*
	Mockernut hickory	*Carya alba*
	Sweetgum	*L. styraciflua*
Percent understory cover	90%	
Common herbaceous species	Blackgum	*N. sylvatica*
	English ivy	*Hedera helix*
	Japanese honeysuckle	*Lonicera japonica*
	Lowbush blueberry	*Vaccinium augustifolium*
	Oak seedlings	*Quercus* spp.
Percent herbaceous cover	60%	
Invasive exotic species	English ivy	*H. helix*
	Exotic bush honeysuckle	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Multiflora rose	*Rosa multiflora*
	Privet sp.	*Ligustrum* sp.
	White mulberry	*Morus alba*
Percent invasive cover	5% (tree), 15% (understory), 45% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Poor	
Specimen trees[1]	2	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, a wetland and a waterway	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 3

Stand 3 is located in the south-east portion of the FSD study area in Prince George's County and is bounded by Veterans Parkway (MD 410) to the northeast, Allstate Insurance Company facility to the south, Chesapeake Road to the southwest and commercial area to the northwest. Approximately 1.41 acres of Stand 3 is located within the FSD study area. The deciduous stand is dominated by eastern cottonwood (*Populus deltoides*), and American elm (*Ulmus americana*). No specimen trees were surveyed within Stand 3. Table 3-4 summarizes the investigation results.

Table 3-4 GENERAL CHARACTERISTICS OF STAND 3	
Topography	Steep ravine in the center of the stand with hummocky terrain throughout
Approximate size within FSD study area	1.41 acres
Wetlands	None
Endangered species habitat	None
Streams	None

Table 3-4 GENERAL CHARACTERISTICS OF STAND 3		
Successional stage	Early	
Dominant species/co-dominant species	American elm	*Ulmus americana*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
	Eastern cottonwood	*Populus deltoides*
	Catalpa	*Catalpa speciosa*
	Red maple	*Acer rubrum*
	White mulberry	*Morus alba*
Size class of dominant species	20 to 29.9 inches DBH	
Basal area	120 square feet/acre	
Percent canopy closure	100%	
Common understory species	Bush honeysuckle	*Lonicera* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Poison ivy	*Toxicodendron radicans*
	Black cherry	*Prunus serotina*
	Common grennbriar	*Smilax rotundifolia*
	Grape sp	*Vitis* sp.
Percent understory cover	90%	
Common herbaceous species	Virginia Creeper	*Parthenocissus quinquefolia*
	English ivy	*Hedera helix*
	Grape sp	*Vitis* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*Rosa multiflora*
	Wild onion	*Allium* sp.
Percent herbaceous cover	100%	
Invasive exotic species	English ivy	*H. helix*
	Bush honeysuckle	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Callery pear	*Pyrus calleryana*
	Multiflora rose	*R. multiflora*
	White mulberry	*M. alba*
Percent invasive cover	5% (tree), 85% (understory), 90% (herbaceous)	
Number of standing dead trees greater than 6" DBH	0 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

Stand 4

Stand 4 is located in the south-east portion of the FSD study area in Prince George's County and is bounded by a car dealership to the north, a residential neighborhood along Emerson Road to the northeast, Veterans Parkway (MD 410) to the west, and a M-NCPPC Park area partially enclosed by Stand 4 to the southeast. Approximately 0.05 acre of Stand 4 is located within the FSD study area. The mixed-deciduous stand is dominated by northern red oak (*Quercus rubra*),

and white oak (*Quercus alba*). No specimen trees were identified in Stand 4. Table 3-5 summarizes the investigation results.

Table 3-5 GENERAL CHARACTERISTICS OF STAND 4		
Topography	Flat to gently sloping to a small stream on the southern end of the stand	
Approximate size within FSD study area	0.05 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) waterway	
Successional stage	Early-mid	
Dominant species/co-dominant species	Northern red oak	*Quercus rubra*
	White oak	*Quercus alba*
	Sweetgum	*Liquidambar styraciflua*
	Willow oak	*Quercus phellos*
	Tulip poplar	*Liriodendron tulipifera*
Size class of dominant species	12 to 29.9 inches DBH	
Basal area	105 square feet/acre	
Percent canopy closure	100%	
Common understory species	Japanese honeysuckle	*Lonicera japonica*
	Poison ivy	*Toxicodendron radicans*
	Common greenbrier	*Smilax rotundifolia*
	Mountain laurel	*Kalmia latifolia*
	Blackgum	*Nyssa sylvatica*
	Red maple	*Acer rubrum*
	English ivy	*Hedera helix*
Percent understory cover	80%	
Common herbaceous species	Low bush blueberry	*Vaccinium angustifolium*
	English ivy	*Hedera helix*
	Virginia Creeper	*Parthenocissus quinquefolia*
	Japanese honeysuckle	*Lonicera japonica*
	Sedge sp.	*Carex* sp.
Percent herbaceous cover	90%	
Invasive exotic species	English ivy	*H. helix*
	Japanese honeysuckle	*L. japonica*
	Multiflora rose	*Rosa multiflora*
Percent invasive cover	15% (tree), 45% (understory), 50% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Fair	
Specimen trees	None	
Priority ranking	3	

Stand 5

The FSD study area does not intersect Stand 5 but the stand is described below due to its close proximity. Stand 5 is located in the southeast portion of the FSD study area in Prince George's

County and is bounded by Ingraham Street to the northeast, 76th Avenue to the east, Annapolis Road to the southeast, Veterans Parkway (MD 410) to the west. The deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), tree of heaven (*Ailanthus altissima*), black locust (*Robinia pseudoacacia*), American sycamore (*Platanus occidentalis*), and red maple (*Acer rubrum*). No specimen trees were identified in Stand 5. Table 3-6 summarizes the investigation results.

Table 3-6
GENERAL CHARACTERISTICS OF STAND 5

Topography	Flat with general sloping to the east & evidence of human disturbance	
Approximate size within FSD study area	0 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Sweetgum	*Liquidambar styraciflua*
	Red maple	*Acer rubrum*
	Eastern cottonwood	*Populus deltoides*
	American elm	*Ulmus americana*
	Tree of heaven	*Ailanthus altissima*
	Black locust	*Robinia pseudoacacia*
	American sycamore	*Platanus occidentalis*
Size class of dominant species	6 to 19.9 inches DBH	
Basal area	125 square feet/acre	
Percent canopy closure	90%	
Common understory species	Crabapple	*Malus sp.*
	American elm	*Ulmus americana*
	Poison ivy	*Toxicodendron radicans*
	Black cherry	*Prunus serotina*
	Red cedar	*Juniperus virginiana*
	Sweetgum	*Liquidambar styraciflua*
Percent understory cover	100%	
Common herbaceous species	Poison ivy	*T. radicans*
	English ivy	*Hedera helix*
	Japanese honeysuckle	*Lonicera japonica*
	Raspberry	*Rubus* sp.
	Wild onion	*Allium*
Percent herbaceous cover	100%	
Invasive exotic species	English ivy	*H. helix*
	Japanese honeysuckle	*L. japonica*
	Wintercreeper	*Euonymus fortunei*
	Multiflora rose	*Rosa multiflora*
Percent invasive cover	25% (tree), 60% (understory), 88% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	

Table 3-6 GENERAL CHARACTERISTICS OF STAND 5	
Specimen trees	None
Priority ranking	N/A; stand is not within FSD study area

Stand 6

Stand 6 is located within the eastern portion of the study area in Prince George's County and is bounded by an M-NCPPC parking lot and access road to the north, the M-NCPPC maintenance facility to the southwest and a field to the southeast. Approximately 2.25 acres of Stand 6 is located with the FSD study area. The mixed-deciduous stand is dominated by Virginia pine (*Pinus virginiana*), sweetgum (*Liquidambar styraciflua*), and red maple (*Acer rubrum*). No specimen trees were identified in Stand 6. Table 3-7 summarizes the investigation results.

Table 3-7 GENERAL CHARACTERISTICS OF STAND 6		
Topography	Gently sloping	
Approximate size within FSD study area	2.25 acres	
Wetlands	One palustrine forested (PFO) wetland	
Endangered species habitat	None	
Streams	Two riverine intermittent (R4) waterways	
Successional stage	Early-mid	
Dominantspecies/co-dominant species	Northern red oak	*Quercus rubra*
	Red maple	*Acer rubrum*
	Sweetgum	*Liquidambar styraciflua*
	Virginia pine	*Pinus virginiana*
	Black walnut	*Juglans nigra*
Size class of dominant species	6 to 29.9 inches DBH	
Basal area	70 square feet/acre	
Percent canopy closure	100%	
Common understory species	Common greenbrier	*Smilax rotundifolia*
	Southern arrowwood	*Viburnum dentatum*
	American holly	*Ilex opaca*
	Multiflora rose	*Rosa multiflora*
	Black cherry	*Prunus serotina*
	Possumhaw	*Ilex decidua*
Percent understory cover	100%	
Common herbaceous species	Poison ivy	*Toxicodendron radicans*
	Low bush blueberry	*Vaccinium angustifolium*
	Japanese honeysuckle	*Lonicera japonica*
	Sedge sp.	*Carex* sp.
	Ladyslip orchid	*Cypripedium* sp.
Percent herbaceous cover	40%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Multiflora rose	*R. multiflora*
Percent invasive cover	20% (tree), 15% (understory), 20% (herbaceous)	

Table 3-7 GENERAL CHARACTERISTICS OF STAND 6	
Number of standing dead trees greater than 6" DBH	20 per acre
Quality	Fair to good
Specimen trees	None
Priority ranking	Priority 1 due to the presence of steep slopes, streams, and wetlands

Stand 7

Stand 7 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by Veterans Parkway (MD 410) to the north, a M-NCPPC maintenance facility to the east, a pond to the southwest, and contiguous forest to the west. Approximately 5.31 acres of Stand 7 is located within the FSD study area. The mixed-deciduous stand is dominated by Virginia pine (*Pinus virginiana*), tulip poplar (*Liriodendron tulipifera),* and northern red oak (*Quercus rubra*). Two specimen trees were surveyed, located in the northwest and southwest portions of Stand 7. Table 3-8 summarizes the investigation results.

Table 3-8 GENERAL CHARACTERISTICS OF STAND 7		
Topography	Gently sloping northeast towards MD 410	
Approximate size within FSD study area	5.31 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) stream	
Successional stage	Early-mid	
Dominant species/co-dominant species	White oak	*Quercus alba*
	Northern red oak	*Quercus rubra*
	Southern red oak	*Quercus falcata*
	Virginia pine	*Pinus virginiana*
	Chesnut oak	*Quercus primus*
	Tulip poplar	*Liriodendron tulipifera*
	Blackgum	*Nyssa sylvatica*
	Sweetgum	*Liquidambar styraciflua*
Size class of dominant species	6 to 19.9 inches DBH	
Basal area	100 square feet/acre	
Percent canopy closure	100%	
Common understory species	Blackgum	*N. sylvatica*
	Southern arrowwood	*Viburnum dentatum*
	American holly	*Ilex opaca*
	Mountain laurel	*Kalmia latifolia*
	Pink azalea	*Rhododendron periclymenoides*
	Highbush blueberry	*Vaccinium corymbosum*
Percent understory cover	80%	
Common herbaceous species	Blackgum	*N. sylvatica*
	Lowbush blueberry	*Vaccinium angustifolium*
	Chesnut oak	*Q. primus*

Table 3-8 GENERAL CHARACTERISTICS OF STAND 7		
	Virginia creeper	*Parthenocissus quinquefolia*
	Braken fern	*Pteridium Gleditsch*
Percent herbaceous cover	40%	
Invasive exotic species	None	
Percent invasive cover	0% (tree), 0% (understory), 0% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Good	
Specimen trees[1]	2	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and waterways	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 8

Stand 8 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by a M-NCPPC maintenance facility and recreation area to the north and west, Glenridge Elementary School and fields to the east, and Gallatin Road to the south. Approximately 0.16 acre of Stand 8 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), willow oak (*Quercus phellos*), and Virginia pine (*Pinus virginiana*). No specimen trees were identified in Stand 8. Table 3-9 summarizes the investigation results.

Table 3-9 GENERAL CHARACTERISTICS OF STAND 8		
Topography	Gently sloping; linear fragment	
Approximate size within FSD study area	0.16 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Willow oak	*Quercus phellos*
	Virginia pine	*Pinus virginiana*
	Callery pear	*Pyrus calleryana*
	Red maple	*Acer rubrum*
	Sweetgum	*Liquidambar styraciflua*
	Slippery elm	*Ulmus rubra*
Size class of dominant species	6 to 19.9 inches DBH	
Basal area	135 square feet/acre	
Percent canopy closure	100%	
Common understory species	Common greenbrier	*Smilax rotundifolia*
	Southern arrowwood	*Viburnum dentatum*
	American holly	*Ilex opaca*
	Multiflora rose	*Rosa multiflora*

Table 3-9 GENERAL CHARACTERISTICS OF STAND 8		
	Grape sp.	*Vitis sp.*
	White oak	*Quercus alba*
	English ivy	*Hedera helix*
Percent understory cover	90%	
Common herbaceous species	English ivy	*Hedera helix*
	Common greenbrier	*Smilax rotundifolia*
	Japanese honeysuckle	*Lonicera japonica*
	Poison ivy	*Toxicodendron radicans*
	Virginia creeper	*Parthenocissus quinquefolia*
	Wild onion	*Allium ascalonicum*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Callery pear	*P. calleryana*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	3% (tree), 45% (understory), 88% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 3	

Stand 9

The FSD study area does not intersect Stand 9 but the stand is described bleow due to its close proximity. Stand 9 is located within the eastern portion of the study area in Prince George's County and is bounded by Oliver Street to the north, residential neighborhoods to the east and south, and Veterans Parkway (MD 410) to the west. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*). Three specimen trees were surveyed in the western region of Stand 9. Table 3-10 summarizes the investigation results.

Table 3-10 GENERAL CHARACTERISTICS OF STAND 9		
Topography	Flat	
Approximate size within FSD study area	0 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine lower-perennial (R2) waterway and one riverine intermittent (R4) waterway.	
Successional stage	Early-mid	
Dominant species/co-dominant species	White oak	*Quercus alba*
	Northern red oak	*Quercus rubra*
	River birch	*Betula nigra*
	Red maple	*Acer rubrum*
	Sweetgum	*Liquidambar styraciflua*

Table 3-10 GENERAL CHARACTERISTICS OF STAND 9		
	Tulip poplar	*Liriodendron tulipifera*
	Virginia pine	*Pinus virginiana*
	Swamp chestnut oak	*Quercus michauxii*
Size class of dominant species	12 to 29.9 inches DBH	
Basal area	195 square feet/acre	
Percent canopy closure	100%	
Common understory species	Common greenbrier	*Smilax rotundifolia*
	Southern arrowwood	*Viburnum dentatum*
	American holly	*Ilex opaca*
	Multiflora rose	*Rosa multiflora*
	Oak sp.	*Quercus* sp.
	Boxwood	*Buxus* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Highbush blueberry	*Vaccinium corymbosum*
Percent understory cover	60%	
Common herbaceous species	Poison ivy	*Toxicodendron radicans*
	Multiflora rose	*R. multiflora*
	Japanese honeysuckle	*L. japonica*
	Partridge berry	*Mitchella repens*
	Bell wort	*Uvularia* sp.
	Spice bush	*Lindera benzoin*
	Raspberry	*Rubus* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Multiflora rose	*R. multiflora*
Percent invasive cover	0% (tree), 25% (understory), 70% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Fair	
Specimen trees[1]	3	
Priority ranking	N/A; stand is not within FSD study area	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 10

Stand 10 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by forest to the north and east, residential neighborhoods to the southeast and northwest, and Veterans Parkway (MD 410) to the southwest. Approximately 0.54 acre of Stand 10 is located within the FSD study area. The mixed-deciduous stand is dominated by chestnut oak (*Quercus prinus*) and northern red oak (*Quercus rubra*). No specimen trees were identified in Stand 10. Table 3-11 summarizes the investigation results.

Table 3-11 GENERAL CHARACTERISTICS OF STAND 10	
Topography	Sloping toward stream along northeast edge of plot

Table 3-11 GENERAL CHARACTERISTICS OF STAND 10		
Approximate size within FSD study area	0.54 acre	
Wetlands	One palustrine, emergent (PEM) wetland, two palustrine, scrub/shrub (PSS) wetlands, and one palustrine, forested (PFO) wetland.	
Endangered species habitat	None	
Streams	Two riverine, intermittent (R4) waterways and three riverine, lower-perennial (R2) waterways.	
Successional stage	Mid	
Dominant species/co-dominant species	White oak	*Quercus alba*
	Northern red oak	*Quercus rubra*
	Chestnut oak	*Quercus prinus*
	Red maple	*Acer rubrum*
	Blackgum	*Nyssa sylvatica*
Size class of dominant species	12 to 29.9 inches DBH	
Basal area	160 square feet/acre	
Percent canopy closure	100%	
Common understory species	Red maple	*A. rubrum*
	Southern arrowwood	*Viburnum dentatum*
	American holly	*Ilex opaca*
	Mountain laurel	*Kalmia latifolia*
	Sweetbay Magnolia	*Magnolia virginiana*
	Sweetgum	*Liquidambar sp.*
Percent understory cover	70%	
Common herbaceous species	Chestnut oak	*Q. prinus*
	American holly	*I. opaca*
	Mountain laurel	*K. latifolia*
	Partridge berry	*Mitchella repens*
	Cinnamon fern	*Osmunda cinnamomea*
	Common greenbrier	*Smilax rotundifolia*
	New York fern	*Thelypteris noveboracensis*
	Lowbush blueberry	*Vaccinium angustifolium*
	Blackgum	*N. sylvatica*
Percent herbaceous cover	90%	
Invasive exotic species	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*R. multiflora*
Percent invasive cover	0% (tree), 5% (understory), 5% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Good	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of wetlands and waterways	

Stand 11

The FSD study area does not intersect Stand 11 but the stand is described below due to its close proximity. Stand 11 is located within the eastern portion of the study area in Prince George's

County and is bounded by a residential neighborhood to the north, forested area to the southeast, and Veterans Parkway (MD 410) to the west and south. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), black locust (*Robinia pseudoacacia*), black cherry (*Prunus serotina*), red maple (*Acer rubrum*), and green ash (*Fraxinus pennsylvanica*). No specimen trees were identified in Stand 11. Table 3-12 summarizes the investigation results.

Table 3-12
GENERAL CHARACTERISTICS OF STAND 11

Topography	Steep slope west towards the road and southeast towards apartments	
Approximate size within FSD study area	0 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	White oak	*Quercus alba*
	Green ash	*Fraxinus pennsylvanica*
	Sweetgum	*Liquidambar styraciflua*
	Red maple	*Acer rubrum*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	12 to 29.9 inches DBH	
Basal area	125 square feet/acre	
Percent canopy closure	90%	
Common understory species	Red maple	*A. rubrum*
	Multiflora rose	*Rosa multiflora*
	Winged euonymus	*Euonymus alatus*
	Tulip poplar	*Liriodendron tulipifera*
	Poison ivy	*Toxicodendron radicans*
	Privet	*Ligustrum*
	Norway maple	*A. platanoides*
	Sweetgum	*L. styraciflua*
Percent understory cover	60%	
Common herbaceous species	Norway maple	*A. platanoides*
	Japanese honeysuckle	*Lonicera japonica*
	Winged euonymus	*E. alatus*
	Poison ivy	*Toxicodendron radicans*
	Wild onion	*Allium ascalonicum*
	Common chickweed	*Stellaria media*
	Blackberry	*Rubus* sp.
	Cleavers	*Galium aparine*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Winged euonymus	*Euonymus alatus*
	Privet	*Ligustrum* sp.
	Norway maple	*A. platanoides*
Percent invasive cover	8% (tree), 50% (understory), 98% (herbaceous)	

Table 3-12 GENERAL CHARACTERISTICS OF STAND 11	
Number of standing dead trees greater than 6" DBH	None
Quality	Poor
Specimen trees	None
Priority ranking	N/A; stand is not within study area

Stand 12

Stand 12 is located within the eastern portion of the study area in Prince George's County and is bounded by Veterans Parkway (MD 410) to the northeast, maintained park area to the west, and residential neighborhoods (Rosalie Lane) to the southwest. Approximately 0.56 acre of Stand 12 is located within the FSD study area. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*), black locust (*Robinia pseudoacacia*), and slippery elm (*Ulmus rubra*). No specimen trees were identified in Stand 12. Table 3-13 summarizes the investigation results.

Table 3-13 GENERAL CHARACTERISTICS OF STAND 12		
Topography	Steep slope with a riprap drainage channel	
Approximate size within FSD study area	0.56 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	White mulberry	*Morus alba*
	Tulip poplar	*Liriodendron tulipifera*
	Sweetgum	*Liquidambar styraciflua*
	Red maple	*Acer rubrum*
	Tree of heaven	*Ailanthus altissima*
	American sycamore	*Platanus occidentalis*
	Slippery elm	*Ulmus rubra*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	6 to 11.9 inches DBH	
Basal area	55 square feet/acre	
Percent canopy closure	80%	
Common understory species	Red maple	*A. rubrum*
	Northern red oak	*Quercus rubra*
	Winged sumac	*Rhus copallinum*
	Tulip poplar	*Liriodendron tulipifera*
	Poison ivy	*Toxicodendron radicans*
	Raspberry	*Rubus* sp.
	Southern arrowroot	*Viburnum dentatum*
	Callery pear	*Pyrus calleryana*
	Multiflora rose	*Rosa multiflora*
Percent understory cover	100%	

Table 3-13 GENERAL CHARACTERISTICS OF STAND 12		
Common herbaceous species	Raspberry sp.	*Rubus sp.*
	Japanese honeysuckle	*Lonicera japonica*
	Goldenrod	*Solidago* sp.
	Poison ivy	*Toxicodendron radicans*
	Common milkweed	*Asclepias syriaca*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Multiflora rose	*R. multiflora*
	Tree of heaven	*A. altissima*
	Callery pear	*Pyrus calleryana*
Percent invasive cover	5% (tree), 23% (understory), 55% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

Stand 13

Stand 13 is located within the eastern portion of the study area in Prince George's County and is bounded by Veterans Parkway (MD 410) to the north and east, a patchy forest to the south, and residential neighborhoods (Rosalie Lane and Randy Court) to the west. Approximately 2.72 acres of Stand 13 are located within the FSD study area. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*), black locust (*Robinia pseudoacacia*), spruce species (*Picea* sp.), and sweetgum (*Liquidambar styraciflua*). No specimen trees were identified in Stand 13. Table 3-14 summarizes the investigation results.

Table 3-14 GENERAL CHARACTERISTICS OF STAND 13		
Topography	Steep slope with a riprap drainage channel	
Approximate size within FSD study area	2.72 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Black locust	*Robinia pseudoacacia*
	Tulip poplar	*Liriodendron tulipifera*
	Callery pear	*Pyrus calleryana*
	Red maple	*Acer rubrum*
	Blackgum	*Nyssa sylvatica*
	Spruce sp.	*Picea sp.*
	Winged sumac	*Rhus copallinum*
	Sweetgum	*Liquidambar styraciflua*
	American sycamore	*Platanus occidentalis*

Table 3-14 GENERAL CHARACTERISTICS OF STAND 13		
	Virginia pine	*Pinus virginiana*
Size class of dominant species	2 to 11.9 inches DBH	
Basal area	60 square feet/acre	
Percent canopy closure	90%	
Common understory species	Red maple	*A. rubrum*
	Black cherry	*Prunus serotina*
	Oriental bittersweet	*Celastrus orbiculatus*
	Winged sumac	*Rhus copallinum*
	Elderberry	*Sambucus* sp.
	Bush honeysuckle	*Lonicera* sp.
	Raspberry sp.	*Rubus* sp.
	Black locust	*R. pseudoacacia*
	Callery pear	*Pyrus calleryana*
	Multiflora rose	*Rosa multiflora*
Percent understory cover	80%	
Common herbaceous species	Raspberry	*Rubus sp.*
	Japanese honeysuckle	*Lonicera japonica*
	Goldenrod	*Solidago* sp.
	Poison ivy	*Toxicodendron radicans*
	Mile-a-minute	*Polygonum perfoliatum*
	Violet sp.	*Viola* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
	Korean clover	*Kummerowia stipulacea*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Multiflora rose	*R. multiflora*
	Korean clover	*K. stipulacea*
	Oriental bittersweet	*C. orbiculatus*
	European privet	*L. vulgare*
	Mile-a-minute	*P. perfoliatum*
	Bush honeysuckle sp.	*Lonicera* sp.
	Callery pear	*P. calleryana*
Percent invasive cover	10% (tree), 40% (understory), 75% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

Stand 14

Stand 14 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by Riverdale Road to the northwest, Veterans Parkway (MD 410) to the northeast, forested area to the southwest, and residential neighborhoods to the west.

Approximately 2.89 acres of Stand 14 is located within the FSD study area. The mixed-deciduous stand is dominated by slippery elm (*Ulmus rubra*). No specimen trees were identified in Stand 14. Table 3-15 summarizes the investigation results.

Table 3-15
GENERAL CHARACTERISTICS OF STAND 14

Topography	Steep roadway embankment	
Approximate size within FSD study area	2.89 acres	
Wetlands	One palustrine, open water (POW) wetland and one palustrine, scrub-shrub (PSS) wetland.	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Black locust	*Robinia pseudoacacia*
	Tree of heaven	*Ailanthus altissima*
	Loblolly pine	*Pinus taeda*
	Red maple	*Acer rubrum*
	Black walnut	*Juglans nigra*
	Slippery Elm	*Ulmus rubra*
Size class of dominant species	6-11.9 inches DBH	
Basal area	30 square feet/acre	
Percent canopy closure	90%	
Common understory species	Boxelder	*A. negundo*
	Grape sp.	*Vitis* sp.
	Bamboo sp.	Poaceae sp.
	Winged sumac	*Rhus copallinum*
	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Raspberry	*Rubus* sp.
	Black locust	*R. pseudoacacia*
	Callery pear	*Pyrus calleryana*
	Norway maple	*Acer platanoides*
Percent understory cover	80%	
Common herbaceous species	Raspberry	*Rubus sp.*
	Japanese honeysuckle	*Lonicera japonica*
	Goldenrod	*Solidago* sp.
	Dandelion	*Taraxacum* sp.
	Garlic mustard	*Alliaria petiolata*
	Virginia creeper	*Parthenocissus quinquefolia*
	Curly dock	*Rumex crispus*
	Sedge sp.	*Carex* sp.
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Bush honeysuckle sp.	*Lonicera* sp.
	Garlic mustard	*A. petiolata*
	Tree of heaven	*A. altissima*
	English ivy	*H. helix*
	Bamboo	*Bambusa* sp.

Table 3-15 GENERAL CHARACTERISTICS OF STAND 14		
	Norway maple	*A. platanoides*
	Callery pear	*P. calleryana*
Percent invasive cover	20% (tree), 20% (understory), 40% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes and a wetland	

Stand 15

Stand 15 is located within the eastern portion of the study area in Prince George's County and is bounded by 67th Court to the north and west, M-NCPPC Park Police Station to the east, and Riverdale Road (MD 410) to the south. Approximately 0.89 acre of Stand 15 is located within the FSD study area. The mixed-deciduous stand is dominated by slippery elm (*Ulmus rubra*), green ash (*Fraxinus pennsylvanica*), and red maple (*Acer rubrum*). No specimen trees were identified in Stand 15. Table 3-16 summarizes the investigation results.

Table 3-16 GENERAL CHARACTERISTICS OF STAND 15		
Topography	Forested wetland with canopy gaps	
Approximate size within FSD study area	0.89 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	One ephemeral channel	
Successional stage	Early	
Dominant species/co-dominant species	Sweetgum	*Liquidambar styraciflua*
	Green ash	*Fraxinus pennsylvanica*
	Silver maple	*Acer saccharinum*
	Red maple	*Acer rubrum*
	Slippery Elm	*Ulmus rubra*
	Eastern cottonwood	*Populus deltoides*
Size class of dominant species	6-29.9 inches DBH	
Basal area	75 square feet/acre	
Percent canopy closure	90%	
Common understory species	Boxelder	*A. negundo*
	Grape sp.	*Vitis* sp.
	Green ash	*F. pennsylvanica*
	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Multiflora rose	*Rosa multiflora*
	Oriental bittersweet	*Celastrus orbiculatus*
	Silver maple	*A. saccharinum*
	Tree of heaven	*Ailanthus altissima*
Percent understory cover	90%	

Table 3-16 GENERAL CHARACTERISTICS OF STAND 15		
Common herbaceous species	Raspberry	*Rubus sp.*
	Japanese honeysuckle	*Lonicera japonica*
	Goldenrod	*Solidago* sp.
	Posion ivy	*Toxicodendron radicans*
	Garlic mustard	*Alliaria petiolata*
	Virginia creeper	*Parthenocissus quinquefolia*
	English ivy	*Hedera helix*
	Sedge	*Carex* sp.
Percent herbaceous cover	70%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Bush honeysuckle sp.	*Lonicera* sp.
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
	Oriental bittersweet	*C. orbiculatus*
	Tree of heaven	*A. altissima*
Percent invasive cover	0% (tree), 40% (understory), 45% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor to Fair	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

Stand 16

Stand 16 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by contiguous forest to the north, 67th Court to the east, Riverdale Road (MD 410) to the south, and the Baltimore-Washington Parkway (MD 295) to the west. Approximately 1.69 acres of Stand 16 is located within the FSD study area. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*), red maple (*Acer rubrum*), and willow oak (*Quercus phellos*). No specimen trees were identified in Stand 16. Table 3-17 summarizes the investigation results.

Table 3-17 GENERAL CHARACTERISTICS OF STAND 16		
Topography	Flat with fenced area to the north of the stand	
Approximate size within FSD study area	1.69 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Black locust	*Robinia pseudoacacia*
	Callery pear	*Pyrus calleryana*
	Eastern cottonwood	*Populus deltoides*
	Tulip poplar	*Liriodendron tulipifera*

Table 3-17 GENERAL CHARACTERISTICS OF STAND 16		
	Red maple	*Acer rubrum*
	Slippery elm	*Ulmus rubra*
	Willow oak	*Quercus phellos*
Size class of dominant species	12-19.9 inches DBH	
Basal area	110 square feet/acre	
Percent canopy closure	90%	
Common understory species	Black cherry	*P. serotina*
	Red mulberry	*Morus rubra*
	Persimmon	*Diospyros virginiana*
	Bush honeysuckle sp.	*Lonicera* sp.
	Common greenbrier	*Smilax rotundifolia*
	Multiflora rose	*Rosa multiflora*
	Posion ivy	*Toxicodendron radicans*
	Slippery elm	*U. rubra*
Percent understory cover	100%	
Common herbaceous species	Raspberry	*Rubus sp.*
	Japanese honeysuckle	*Lonicera japonica*
	Goldenrod	*Solidago* sp.
	Posion ivy	*Toxicodendron radicans*
	Garlic mustard	*Alliaria petiolata*
	Virginia creeper	*Parthenocissus quinquefolia*
	Wild onion	*Allium ascalonicum*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Bush honeysuckle sp.	*Lonicera* sp.
	Callery pear	*P. calleryana*
	Garlic mustard	*A. petiolata*
	Multiflora rose	*R. multiflora*
Percent invasive cover	5% (tree), 30% (understory), 70% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 3	

Stand 17

Stand 17 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by maintained fields to the north and south, MD 295 northbound to the east, and MD 295 southbound to the west. Approximately 0.77 acre of Stand 17 is located within the FSD study area. This mixed-deciduous stand is dominated by chestnut oak (*Quercus prinus*), pin oak (*Quercus palustris*), northern red oak (*Quercus rubra*), and tulip poplar (*Liriodendron tulipifera*). No specimen trees were identified in Stand 17. Table 3-18 summarizes the investigation results.

Table 3-18 GENERAL CHARACTERISTICS OF STAND 17		
Topography	Flat	
Approximate size within FSD study area	0.77 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early-mid	
Dominant species/co-dominant species	Pin oak	*Quercus palustris*
	Sweetgum	*Liquidambar styraciflua*
	Blackgum	*Nyssa sylvatica*
	Chestnut oak	*Quercus prinus*
	Tulip poplar	*Liriodendron tulipifera*
	Red maple	*Acer rubrum*
	Northern red oak	*Quercus rubra*
Size class of dominant species	12-29.9 inches DBH	
Basal area	100 square feet/acre	
Percent canopy closure	100%	
Common understory species	Blackgum	*N. sylvatica*
	American holly	*Ilex opaca*
	Highbush blueberry	*Vaccinium corymbosum*
	Lowbush blueberry	*Vaccinium angustifolium*
	Bush honeysuckle sp.	*Lonicera* sp.
	Chestnut oak	*Quercus prinus*
	Red maple	*A. rubrum*
	Sassafras	*Sassafras albidum*
Percent understory cover	100%	
Common herbaceous species	Lowbush blueberry	*Vaccinium angustifolium*
	Common greenbrier	*Smilax rotundifolia*
	Posion ivy	*Toxicodendron radicans*
	Sassafras	*Sassafras albidum*
	Virginia creeper	*Parthenocissus quinquefolia*
	Southern arrowwood	*Viburnum dentatum*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
Percent invasive cover	0% (tree), 15% (understory), 15% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Good	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

Stand 18

Stand 18 is located within the eastern portion of the FSD study area in Prince George's County and is bounded a forested area to the north, MD 295 northbound on the east, maintained turf area and Riverdale Road (MD 410) to the south, and MD 295 southbound to the west. Approximately

0.37 acre of Stand 18 is located within the FSD study area. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*), American elm (*Ulmus americana*), red maple (*Acer rubrum*), willow oak (*Quercus phellos*), and Kentucky coffee tree (*Gymnocladus dioicus*). Two specimen trees were surveyed in Stand 18. Table 3-19 summarizes the investigation results.

Table 3-19
GENERAL CHARACTERISTICS OF STAND 18

Topography	Relatively flat	
Approximate size within FSD study area	0.37 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early-mid	
Dominant species/co-dominant species	American basswood	*Tilia americana*
	American elm	*Ulmus americana*
	Sweetgum	*Liquidambar styraciflua*
	Tulip poplar	*Liriodendron tulipifera*
	Kentucky coffee tree	*Gymnocladus dioicus*
	Red maple	*Acer rubrum*
	Willow oak	*Quercus phellos*
Size class of dominant species	6-29.9 inches DBH	
Basal area	45 square feet/acre	
Percent canopy closure	90%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Virginia creeper	*Parthenocissus quinquefolia*
	Japanese honeysuckle	*Lonicera japonica*
	Mile-a-minute	*Polygonum perfoliatum*
	Willow oak	*Quercus phellos*
	Red maple	*A. rubrum*
Percent understory cover	100%	
Common herbaceous species	Japanese honeysuckle	*L. japonica*
	Cleaver	*Galium aparine*
	Mile-a-minute	*P. perfoliatum*
	Garlic mustard	*Alliaria petiolata*
	Multiflora rose	*Rosa multiflora*
	Creeping phlox	*Phlox stolonifera*
	Posion ivy	*T. radicans*
	Lesser periwinkle	*Vinca minor*
	Virginia creeper	*Parthenocissus quinquefolia*
	Raspberry	*Rubus* sp.
Percent herbaceous cover	90%	
Invasive exotic species	Lesser periwinkle	*V. minor*
	Multiflora rose	*R. multiflora*
	Garlic mustard	*A. petiolata*
	Mile-a-minute	*P. perfoliatum*

Table 3-19 GENERAL CHARACTERISTICS OF STAND 18		
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	3% (tree), 80% (understory), 97% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Very poor	
Specimen trees[1]	2	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 19

Stand 19 is located within the eastern portion of the study area in Prince George's County and is bounded by Riverdale Road (MD 410) to the north, M & A Intercorp Driving School to the east, Mustang Drive to the south, and Excel Academy to the west. Approximately 5.15 acres of Stand 19 is located within the FSD study area. The mixed-deciduous stand is dominated by white oak (*Quercus alba*), turkey oak (*Quercus laevis*), and tulip poplar (*Liriodendron tulipifera*). One specimen tree was surveyed in the northwestern portion of Stand 19. Table 3-20 summarizes the investigation results.

Table 3-20 GENERAL CHARACTERISTICS OF STAND 19		
Topography	Gently sloping	
Approximate size within FSD study area	5.15 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early-mid	
Dominant species/co-dominant species	White oak	*Quercus alba*
	Tulip poplar	*Liriodendron tulipifera*
	Turkey oak	*Quercus laevis*
	Northern red oak	*Quercus rubra*
	Red maple	*Acer rubrum*
Size class of dominant species	6-29.9 inches DBH	
Basal area	75 square feet/acre	
Percent canopy closure	100%	
Common understory species	Bush honeysuckle sp.	*Lonicera* sp.
	Poison ivy	*Toxicodendron radicans*
	Virginia creeper	*Parthenocissus quinquefolia*
	Winged euonymus	*Euonymus alatus*
	Paw paw	*Asimina triloba*
	Common greenbrier	*Smilax rotundifolia*
	Oriental bittersweet	*Celastrus orbiculatus*
	Highbush blueberry	*Vaccinium corymbosum*
Percent understory cover	100%	
Common herbaceous species	Oriental bittersweet	*Celastrus orbiculatus*

Table 3-20 GENERAL CHARACTERISTICS OF STAND 19		
	Garlic mustard	*Alliaria petiolata*
	Jewelweed	*Impatiens capensis*
	Fox grape	*Vitis labrusca*
	Posion ivy	*T. radicans*
	Virginia creeper	*Parthenocissus quinquefolia*
	English ivy	*Hedera helix*
Percent herbaceous cover	100%	
Invasive exotic species	Winged euonymus	*Euonymus alatus*
	Bush honeysuckle sp.	*Lonicera sp.*
	Oriental bittersweet	*Celastrus orbiculatus*
	Garlic mustard	*Alliaria petiolata*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	43% (tree), 15% (understory), 68% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor to fair	
Specimen trees[1]	1	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 20

Stand 20 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by River Road to the north, Kenilworth Avenue (MD 210) to the east, commercial development to the south, and a stream channel that runs along the west boundary of the stand. Approximately 2.73 acres of Stand 20 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), tulip poplar (*Liriodendron tulipifera*), and red maple (*Acer rubrum*). Nine specimen trees were surveyed in the northeast sections of Stand 20. Table 3-21 summarizes the investigation results.

Table 3-21 GENERAL CHARACTERISTICS OF STAND 20		
Topography	Flat with hiking trails and drainage patterns	
Approximate size within FSD study area	2.73 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine, lower perennial (R2) waterway	
Successional stage	Early-mid	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	Sweetgum	*Liquidambar styraciflua*
	Red maple	*Acer rubrum*
	Black cherry	*Prunus serotina*
Size class of dominant species	6->30 inches DBH	
Basal area	100 square feet/acre	

Table 3-21 GENERAL CHARACTERISTICS OF STAND 20		
Percent canopy closure	100%	
Common understory species	Japanese honeysuckle	*Lonicera japonica*
	Poison ivy	*Toxicodendron radicans*
	Multiflora rose	*Rosa multiflora*
	Winged euonymus	*Euonymus alatus*
	Paw paw	*Asimina triloba*
	Common greenbrier	*Smilax rotundifolia*
	Northern spicebush	*Lindera benzoin*
	Grape	*Vitis* sp.
Percent understory cover	70%	
Common herbaceous species	Japanese honeysuckle	*Lonicera japonica*
	Japanese stiltgrass	*Microstegium vimineum*
	Blackberry sp.	*Rubus* sp.
	Deertongue	*Dichanthelium clandestinum*
	Grass sp.	
	Posion ivy	*T. radicans*
	Virginia creeper	*Parthenocissus quinquefolia*
	Mile-a-minute	*Polygonum perfoliatum*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese stiltgrass	*M. vimineum*
	Mile-a-minute	*P. perfoliatum*
	Multiflora rose	*R multiflora*
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	15% (tree), 35% (understory), 80% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Poor	
Specimen trees[1]	9	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and streams	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 21

Stand 21 is located in the eastern portion of the study area in Prince George's County and is bounded by River Road to the north, a stream channel that runs along the east boundary of the stand, shrub forest to the south, and a paved trail to the west. Approximately 0.22 acre of Stand 21 is located within the FSD study area. The deciduous stand is dominated by American sycamore (*Platanus occidentalis*), slippery elm (*Ulmus rubrum*), Siberian elm (*Ulmus pumila*), and tulip poplar (*Liriodendron tulipifera*). No specimen trees were identified in Stand 21. Table 3-22 summarizes the investigation results.

Table 3-22 GENERAL CHARACTERISTICS OF STAND 21	
Topography	Steep to gently sloping west to east

Table 3-22 GENERAL CHARACTERISTICS OF STAND 21		
Approximate size within FSD study area	0.22 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway.	
Successional stage	Early	
Dominant species/co-dominant species	Silver maple	*Acer saccharinum*
	Red maple	*Acer rubrum*
	Slippery elm	*Ulmus rubra*
	Siberian elm	*Ulmus pumila*
	Tulip poplar	*Liriodendron tulipifera*
	Tree of heaven	*Ailanthus altissima*
	Green ash	*Fraxinus pennsylvanica*
	River birch	*Betula nigra*
	Northern catalpa	*Catalpa speciosa*
	American sycamore	*Platanus occidentalis*
Size class of dominant species	2-19.9 inches DBH	
Basal area	145 square feet/acre	
Percent canopy closure	80%	
Common understory species	Bush honeysuckle sp.	*Lonicera* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
	Trumpet creeper	*Campsis radicans*
	Northern spicebush	*Lindera benzoin*
	Green ash	*F. pennsylvanica*
	Multiflora rose	*Rosa multiflora*
	Oriental bittersweet	*Celastrus orbiculatus*
	Japanese honeysuckle	*Lonicera japonica*
Percent understory cover	70%	
Common herbaceous species	Creeping charlie	*Pilea nummulariifolia*
	Garlic mustard	*Alliaria petiolata*
	Virginia creeper	*P. quinquefolia*
	Grass sp.	
	Japanese honeysuckle	*L. japonica*
	Deertongue	*Dichanthelium clandestinum*
	Day lily	*Hemerocallis* sp.
Percent herbaceous cover	90%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera sp.*
	Oriental bittersweet	*C. orbiculatus*
	Multiflora rose	*R. multiflora*
	Siberian elm	*U. pumila*
	Garlic mustard	*A. petiolata*
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	15% (tree), 50% (understory), 30% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	

Table 3-22 GENERAL CHARACTERISTICS OF STAND 21	
Specimen trees	None
Priority ranking	Priority 1 due to the presence of steep slopes and a waterway

Stand 22

Stand 22 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by River Road to the north, University Research Court to the east, a forested area and stream channel to the south, and Rivertech Court to the south. Approximately 2.98 acres of Stand 22 are located within the FSD study area. The mixed-deciduous stand is dominated by Siberian elm (*Ulmus pumila*). No specimen trees were identified in Stand 22. Table 3-23 summarizes the investigation results.

Table 3-23 GENERAL CHARACTERISTICS OF STAND 22		
Topography	Flat	
Approximate size within FSD study area	2.98 acres	
Wetlands	Two palustrine, forested (PFO) wetlands.	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway.	
Successional stage	Early	
Dominant species/co-dominant species	Black locust	*Robinia pseudoacacia*
	Callery pear	*Pyrus calleryana*
	Siberian elm	*Ulmus pumila*
Size class of dominant species	2-19.9 inches DBH	
Basal area	47 square feet/acre	
Percent canopy closure	90%	
Common understory species	Callery pear	*P. calleryana*
	Siberian elm	*U. pumila*
	Multiflora rose	*Rosa multiflora*
	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*Lonicera japonica*
Percent understory cover	50%	
Common herbaceous species	Callery pear	*P. calleryana*
	Wild onion	*Allium ascalonicum*
	Blackberry	*Rubus* sp.
	Japanese brome	*Bromus japonicus*
	Orchard grass	*Dactylis glomerata*
	Japanese honeysuckle	*L. japonica*
	Wine raspberry	*Rubus phoenicolasius*
	Thistle sp.	*Cirsium* sp.
	Day lily	*Hemerocallis* sp.
Percent herbaceous cover	100%	
Invasive exotic species	Callery pear	*P. calleryana*
	Japanese brome	*B. japonicus*
	Orchard grass	*D. glomerata*

Table 3-23 GENERAL CHARACTERISTICS OF STAND 22		
	Oriental bittersweet	*C. orbiculatus*
	Multiflora rose	*R. multiflora*
	Garlic mustard	*A. petiolata*
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	95% (tree), 25% (understory), 35% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of wetlands and a waterway	

Stand 23

Stand 23 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by Physics Ellipse Drive to the north, west, and south, and River Road to the east. Approximately 0.54 acre of Stand 23 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), blackgum (*Nyssa sylvatica*), and red maple (*Acer rubrum*). No specimen trees were identified in Stand 23. Table 3-24 summarizes the investigation results.

Table 3-24 GENERAL CHARACTERISTICS OF STAND 23		
Topography	Flat	
Approximate size within FSD study area	0.54 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Blackgum	*Nyssa sylvatica*
	Red maple	*Acer rubrum*
	Slippery elm	*Ulmus rubra*
	Virginia pine	*Pinus virginiana*
	White mulberry	*Morus alba*
	Sweetgum	*Liquidambar styraciflua*
	Willow oak	*Quercus phellos*
Size class of dominant species	2-29.9 inches DBH	
Basal area	63 square feet/acre	
Percent canopy closure	90%	
Common understory species	English ivy	*Hedera helix*
	Poison ivy	*Toxicodendron radicans*
	Bush honeysuckle sp.	*Lonicera* sp.
	Northern red oak	*Quercus rubra*
	Multiflora rose	*Rosa multiflora*
	Grape sp.	*Vitis* sp.
	Japanese honeysuckle	*Lonicera japonica*

Table 3-24 GENERAL CHARACTERISTICS OF STAND 23		
Percent understory cover	90%	
Common herbaceous species	Virginia creeper	*Parthenocissus quinquefolia*
	Blackberry	*Rubus* sp.
	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Sedge sp.	*Carex* sp.
	Common greenbrier	*Smilax rotundifolia*
	English ivy	*H. helix*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	English ivy	*H. helix*
	White mulberry	*M. alba*
	Multiflora rose	*R. multiflora*
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	5% (tree), 35% (understory), 65% (herbaceous)	
Number of standing dead trees greater than 6" DBH	20 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 3	

Stand 24

Stand 24 is located within the eastern portion of the FSD study area in Prince George's County and is bounded by Metro parking areas to the north, River Road to the east, a stream channel to the south, and Metro rail lines to the west. Approximately 5.02 acres of Stand 24 is located wihin the FSD study area. The mixed-deciduous stand is dominated by northern red oak (*Quercus rubra*) and white oak (*Quercus alba*). Six specimen trees were surveyed in throughout Stand 24. Table 3-25 summarizes the investigation results.

Table 3-25 GENERAL CHARACTERISTICS OF STAND 24		
Topography	Flat with moderate to large, downed woody debris	
Approximate size within FSD study area	5.02 acres	
Wetlands	One palustrine forested (PFO) wetland	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway.	
Successional stage	Early-mid	
Dominant species/co-dominant species	Red maple	*Acer rubrum*
	Mockernut hickory	*Carya alba*
	Pin oak	*Quercus palustris*
	Northern red oak	*Quercus rubra*
	White oak	*Quercus alba*
	Blackjack oak	*Quercus marilandica*
	Tulip poplar	*Liriodendron tulipifera*

Table 3-25 GENERAL CHARACTERISTICS OF STAND 24		
Size class of dominant species	6-29.9 inches DBH	
Basal area	73 square feet/acre	
Percent canopy closure	100%	
Common understory species	Mockernut hickory	*C. alba*
	White oak	*Q. alba*
	Common greenbrier	*Smilax rotundifolia*
	Blackhaw	*Viburnum prunifolium*
	Paw paw	*Asimina triloba*
Percent understory cover	50%	
Common herbaceous species	Virginia creeper	*Parthenocissus quinquefolia*
	Blackberry	*Rubus* sp.
	Mile-a-minute	*Polygonum perfoliatum*
	Japanese honeysuckle	*L. japonica*
	Sedge sp.	*Carex* sp.
	Common greenbrier	*S. rotundifolia*
	Lowbush blueberry	*Vaccinium angustifolium*
Percent herbaceous cover	60%	
Invasive exotic species	Mile-a-minute	*P. perfoliatum*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	0% (tree), 0% (understory), 10% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Good	
Specimen trees[1]	6	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, wetland, and waterways	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 25

Stand 25 is located within Paint Branch Stream Valley Park in the eastern portion of the study area in Prince George's County and is bounded by stream channels to the north and south, Paint Branch Trail to the east, and Paint Branch Parkway to the west. Approximately 2.11 acres of Stand 25 is located within the FSD study area. The mixed-deciduous stand is dominated by American sycamore (*Platanus occidentalis*), tree of heaven (*Ailanthus altissima*), and bitternut hickory (*Carya cordiformis*). No specimen trees were identified in Stand 25. Table 3-26 summarizes the investigation results.

Table 3-26 GENERAL CHARACTERISTICS OF STAND 25	
Topography	Flat to concave due to disturbed floodplain
Approximate size within FSD study area	2.11 acres
Wetlands	One palustrine forested/emergent (PFO/PEM) wetland
Endangered species habitat	None
Streams	Two riverine, lower-perennial (R2) waterways

Table 3-26 GENERAL CHARACTERISTICS OF STAND 25		
Successional stage	Mid	
Dominant species/co-dominant species	American sycamore	*Platanus occidentalis*
	Silver maple	*Acer saccharinum*
	Green ash	*Fraxinus pennsylvanica*
	Bitternut hickory	*Carya cordiformis*
	Tulip poplar	*Liriodendron tulipifera*
	Tree of heaven	*Ailanthus altissima*
	White mulberry	*Morus alba*
Size class of dominant species	12-29.9 inches DBH	
Basal area	97square feet/acre	
Percent canopy closure	80%	
Common understory species	Northern spicebush	*Lindera benzoin*
	Multiflora rose	*Rosa multiflora*
	Norway maple	*Acer platanoides*
	English ivy	*Hedera helix*
	Poison ivy	*Toxicodendron radicans*
	Tree of heaven	*A. altissima*
	Oriental bittersweet	*Celastrus orbiculatus*
Percent understory cover	100%	
Common herbaceous species	Garlic mustard	*Alliaria petiolata*
	Jack in the pulpit	*Arisaema triphyllum*
	Tree of heaven	*A. altissima*
	Japanese honeysuckle	*Lonicera japonica*
	Grape sp.	*Vitis* sp.
Percent herbaceous cover	100%	
Invasive exotic species	Norway maple	*A. platanoides*
	Multiflora rose	*R. multiflora*
	Oriental bittersweet	*C. orbiculatus*
	English ivy	*H. helix*
	White mulberry	*M. alba*
	Tree of heaven	*A. altissima*
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	13% (tree), 20% (understory), 78% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes, a wetland, and a waterway	

Stand 26

Stand 26 is located towards the center of the FSD study area within Prince George's County and is bounded by Campus Drive to the north, a residential backyard to the east, a designated parking area to the south, and the University Baptist Church to the west. Approximately 0.70 acre of Stand 26 is located within the FSD study area. The mixed-deciduous stand is dominated by

sweetgum (*Liquidambar styraciflua*), and red maple (*Acer rubrum*). No specimen trees were identified in Stand 26. Table 3-27 summarizes the investigation results.

Table 3-27 GENERAL CHARACTERISTICS OF STAND 26		
Topography	Flat to gently sloping west, away from Adelphi Road	
Approximate size within FSD study area	0.70 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early-Mid	
Dominant species/co-dominant species	Red maple	*Acer rubrum*
	Blackgum	*Nyssa sylvatica*
	Sweetgum	*Liquidambar styraciflua*
Size class of dominant species	6-19.9 inches DBH	
Basal area	135 square feet/acre	
Percent canopy closure	100%	
Common understory species	Green ash	*Fraxinus pennsylvanica*
	Common greenbrier	*Smilax rotundifolia*
	Princesstree	*Paulownia tomentosa*
	English ivy	*Hedera helix*
	Poison ivy	*Toxicodendron radicans*
	American holly	*Ilex opaca*
	Southern arrowwood	*Viburnum dentatum*
	Sassafras	*Sassafras albidum*
	Highbush blueberry	*Vaccinium corymbosum*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	60%	
Common herbaceous species	Garlic mustard	*Alliaria petiolata*
	English ivy	*Hedera helix*
	Blackberry sp.	*Rubus* sp.
	Japanese honeysuckle	*L. japonica*
	Sedge sp.	*Carex* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
	Lesser periwinkle	*Vinca minor*
	Wild onion	*Allium ascalonicum*
Percent herbaceous cover	100%	
Invasive exotic species	Princesstree	*Paulownia tomentosa*
	English ivy	*Hedera helix*
	Oriental bittersweet	*C. orbiculatus*
	White mulberry	*M. alba*
	Tree of heaven	*A. altissima*
	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	5% (tree), 15% (understory), 55% (herbaceous)	

Table 3-27 GENERAL CHARACTERISTICS OF STAND 26	
Number of standing dead trees greater than 6" DBH	15 per acre
Quality	Poor
Specimen trees	None
Priority ranking	Priority 3

Stand 27

Stand 27 is located towards the center of the FSD study area within Prince George's County and is bounded by University Boulevard (MD 193) to the north, apartment buildings and designated parking areas to the east, Stanford Street to the south, and a retention pond to the west. Approximately 1.86 acres of Stand 27 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), American sycamore (*Platanus occidentalis*), and green ash (*Fraxinus pennsylvanica*). One specimen tree was surveyed in Stand 27. Table 3-28 summarizes the investigation results.

Table 3-28 GENERAL CHARACTERISTICS OF STAND 27		
Topography	Gently sloping north to south	
Approximate size within FSD study area	1.86 acres	
Wetlands	One palustrine forested (PFO) wetland	
Endangered species habitat	None	
Streams	One ephemeral channel	
Successional stage	Early	
Dominant species/co-dominant species	White mulberry	*Morus abla*
	Red maple	*Acer rubrum*
	Black locust	*Robinia pseudoacacia*
	Boxelder	*Acer negundo*
	Green ash	*Fraxinus pennsylvanica*
	American sycamore	*Platanus occidentalis*
	Blackgum	*Nyssa sylvatica*
	Sweetgum	*Liquidambar styraciflua*
Size class of dominant species	6-29.9 inches DBH	
Basal area	143 square feet/acre	
Percent canopy closure	90%	
Common understory species	Boxelder	*Acer negundo*
	Common greenbrier	*Smilax rotundifolia*
	Paw paw	*Asimina triloba*
	Garlic mustard	*Alliaria petiolata*
	Poison ivy	*Toxicodendron radicans*
	American holly	*Ilex opaca*
	Multiflora rose	*Rosa multiflora*
	Privet sp.	*Ligustrum* sp.
	Fox grape	*Vitis labrusca*
	Black cherry	*Prunus serotina*

Table 3-28 GENERAL CHARACTERISTICS OF STAND 27		
Percent understory cover	80%	
Common herbaceous species	Garlic mustard	*A. petiolata*
	Common greenbrier	*S. rotundifolia*
	Blackberry sp.	*Rubus* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Jack in the pulpit	*Arisaema triphyllum*
	Black cherry	*P. serotina*
	Violet sp.	*Viola* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
	Lesser periwinkle	*Vinca minor*
	Jewelweed	*Impatiens capensis*
Percent herbaceous cover	100%	
Invasive exotic species	Garlic mustard	*A. petiolata*
	Privet sp.	*Ligustrum sp.*
	Multiflora rose	*R. multiflora*
	White mulberry	*M. alba*
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	0% (tree), 20% (understory), 85% (herbaceous)	
Number of standing dead trees greater than 6" DBH	25 per acre	
Quality	Poor	
Specimen trees[1]	1	
Priority ranking	Priority 1 due to the presence of specimen trees , steep slopes, wetlands and waterways	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 28

Stand 28 is located toward the center of the FSD study area within Prince George's County and is bounded by contiguous forest to the north, residential neighborhoods to the east, University Parkway (MD 193) to the south and an archery range to the west. Approximately 2.47 acres of Stand 28 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*) and green ash (*Fraxinus pennsylvanica*). No specimen trees were identified in Stand 28. Table 3-29 summarizes the investigation results.

Table 3-29 GENERAL CHARACTERISTICS OF STAND 28		
Topography	Flat to gentle slope	
Approximate size within FSD study area	2.47 acres	
Wetlands	One palustrine emergent (PEM) wetland and One palustrine forested (PFO) wetland	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway.	
Successional stage	Early	
Dominant species/co-dominant	Green ash	*Fraxinus pennsylvanica*

Table 3-29 GENERAL CHARACTERISTICS OF STAND 28		
species	Red maple	*Acer rubrum*
	Slippery elm	*Ulmus rubra*
	Sweetgum	*Liquidambar styraciflua*
Size class of dominant species	6-19.9 inches DBH	
Basal area	115 square feet/acre	
Percent canopy closure	100%	
Common understory species	American elm	*Ulmus americana*
	Slippery elm	*Ulmus rubra*
	Fox grape	*Vitis labrusca*
	Virginia creeper	*Parthenocissus quinquefolia*
	Virginia jumpseed	*Polygonum virginianum*
	Multiflora rose	*Rosa multiflora*
	Garlic mustard	*Alliaria petiolata*
	Paw paw	*Asimina triloba*
	Privet sp.	*Ligustrum* sp.
	Spicebush	*Lindera benzoin*
	Willow oak	*Quercus phellos*
	Blackberry sp.	*Rubus* sp.
Percent understory cover	70%	
Common herbaceous species	Garlic mustard	*A. petiolata*
	Common greenbrier	*Smilax rotundifolia*
	Blackberry sp.	*Rubus* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Paw paw	*A. triloba*
	Virginia creeper	*P. quinquefolia*
	Posion ivy	*Toxicodendron radicans*
	Mile-a-minute	*Polygonum perfoliatum*
	Jack in the pulpit	*Arisaema triphyllum*
	Goldenrod	*Solidago* sp.
	Jewelweed	*Impatiens capensis*
Percent herbaceous cover	100%	
Invasive exotic species	Multiflora rose	*R. multiflora*
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
	White mulberry	*M. alba*
	Privet sp.	*Ligustrum* sp.
	Japanese honeysuckle	*L. japonica*
Percent invasive cover	5% (tree), 10% (understory), 85% (herbaceous)	
Number of standing dead trees greater than 6" DBH	15 per acre	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes, waterway, and wetlands	

Stand 29

Stand 29 is located towards the center of the FSD study area within Prince George's County and is bounded by University Parkway (MD 193) to the north, an access road to the east and south, and a stream channel to the west. Approximately 1.33 acres of Stand 29 is located within the FSD study area. The mixed-deciduous stand is dominated by American sycamore (*Platanus occidentalis*), and tulip poplar (*Liriodendron tulipifera*). Four specimen trees were surveyed in the northern region of Stand 29. Table 3-30 summarizes the investigation results.

Table 3-30
GENERAL CHARACTERISTICS OF STAND 29

Topography	Flat to gently sloping floodplain	
Approximate size within FSD study area	1.33 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway and One riverine, intermittent (R4) waterway	
Successional stage	Early to mid	
Dominant species/co-dominant species	Red maple	*Acer rubrum*
	American sycamore	*Platanus occidentalis*
	Black locust	*Robinia pseudoacacia*
	Tulip poplar	*Liriodendron tulipifera*
	River birch	*Betula nigra*
	Boxelder	*Acer negundo*
Size class of dominant species	30 inches or greater DBH	
Basal area	70 square feet/acre	
Percent canopy closure	90%	
Common understory species	Pin oak	*Quercus palustris*
	Boxelder	*A. negundo*
	Japanese knotweed	*Polygonum cuspidatum*
	Multiflora rose	*Rosa multiflora*
	Wild carrot	*Daucus pusillus*
	Blackberry sp.	*Rubus* sp.
Percent understory cover	100%	
Common herbaceous species	Garlic mustard	*Alliaria petiolata*
	Wild carrot	*D. pusillus*
	Indian strawberry	*Duchesnea indica*
	Japanese knotweed	*P. cuspidatum*
	Mountain wood sorell	*Oxalis montana*
	Violet sp.	*Viola sp.*
	Summer grape	*Vitis aestivalis*
	Fox grape	*Vitis labrusca*
	Mile-a-minute	*Polygonum perfoliatum*
	Poison ivy	*Toxicodendron radicans*
	Japanese honeysuckle	*Lonicera japonica*

Table 3-30 GENERAL CHARACTERISTICS OF STAND 29		
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	80%	
Invasive exotic species	Multiflora rose	*R. multiflora*
	White mulberry	*M. alba*
	Japanese honeysuckle	*L. japonica*
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
	Mile-a-minute	*P. perfoliatum*
	Indian strawberry	*D. indica*
	Japanese knotweed	*P. cuspidatum*
Percent invasive cover	5% (tree), 5% (understory), 55% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor to fair	
Specimen trees[1]	4	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and a waterway	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 30

Stand 30 is located towards the center of the FSD study area within Prince George's County and is bounded by a maintained field and park area to the north and west, an archery range to the east and University Parkway (MD 193) to the south, with a tributary dissecting the stand. Approximately 1.55 acres of Stand 30 is located within the FSD study area. The mixed-deciduous stand is dominated by green ash (*Fraxinus pennsylvanica*), black walnut (*Juglans nigra*), and American sycamore (*Platanus occidentalis*). No specimen trees were identified in Stand 30. Table 3-31 summarizes the investigation results.

Table 3-31 GENERAL CHARACTERISTICS OF STAND 30		
Topography	Floodplain; flat with small tributaries running throughout plots	
Approximate size within FSD study area	1.55 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	Two riverine, lower-perennial (R2) waterways and two riverine intermittent (R4) waterways.	
Successional stage	Early	
Dominant species/co-dominant species	Pin oak	*Quercus palustris*
	American sycamore	*Platanus occidentalis*
	Willow oak	*Quercus phellos*
	Boxelder	*Acer negundo*
	Green ash	*Fraxinus pennsylvanica*
	Black walnut	*Juglans nigra*
Size class of dominant species	2-19.9 inches DBH	

Table 3-31 GENERAL CHARACTERISTICS OF STAND 30		
Basal area	82 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Boxelder	*A. negundo*
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*Rosa multiflora*
	Poison ivy	*Toxicodendron radicans*
	Privet sp.	*Ligustrum* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
	Callery pear	*Pyrus calleryana*
	Bush honeysuckle	*Lonicera* sp.
Percent understory cover	30%	
Common herbaceous species	Garlic mustard	*Alliaria petiolata*
	Kentucky bluegrass	*Poa pratensis*
	Indian strawberry	*Duchesnea indica*
	Japanese honeysuckle	*L. japonica*
	Virginia creeper	*P. quinquefolia*
	Jewelweed	*Impatiens capensis*
	Wildrye	*Elymus* sp.
	Milkweed sp.	*Asclepias* sp.
	Fox grape	*V. labrusca*
	Mile-a-minute	*Polygonum perfoliatum*
	Poison ivy	*T. radicans*
	English ivy	*Hedera helix*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Callery pear	*P. calleryana*
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
	Mile-a-minute	*P. perfoliatum*
	Indian strawberry	*D. indica*
	Bush honeysuckle	*Lonicera* sp.
	Privet sp.	*Ligustrum sp.*
Percent invasive cover	5% (tree), 23% (understory), 60% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor to fair	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes and waterways	

Stand 31

Stand 31 is located towards the center of the FSD study area within Montgomery County and is bounded by University Parkway (MD 193) to the north and east, and residential neighborhoods to the south and west. Approximately 0.40 acre of Stand 31 is located within the FSD study area.

The mixed-deciduous stand is dominated by green ash (*Fraxinus pennsylvanica*), black walnut (*Juglans nigra*), and silver maple (*Acer saccharinum*). No specimen trees were identified in Stand 31. Table 3-32 summarizes the investigation results.

Table 3-32
GENERAL CHARACTERISTICS OF STAND 31

Topography	Gently sloping	
Approximate size within FSD study area	0.40 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Pin oak	*Quercus palustris*
	Slippery elm	*Ulmus rubra*
	White mulberry	*Morus alba*
	Silver maple	*Acer saccharinum*
	Black cherry	*Prunus serotina*
	Northern catalpa	*Catalpa speciosa*
	Green ash	*Fraxinus pennsylvanica*
	Black walnut	*Juglans nigra*
Size class of dominant species	6-29.9 inches DBH	
Basal area	110 square feet/acre	
Percent canopy closure	100%	
Common understory species	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*Rosa multiflora*
	White mulberry	*M. alba*
	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Privet sp.	*Ligustrum* sp.
	Arrowwood sp.	*Viburnum* sp.
	Northern red oak	*Quercus rubra*
Percent understory cover	100%	
Common herbaceous species	Blackberry sp.	*Rubus* sp.
	Japanese honeysuckle	*L. japonica*
	Virginia creeper	*P. quinquefolia*
	Fox grape	*V. labrusca*
	Lesser periwinkle	*Vinca minor*
	Poison ivy	*T. radicans*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Bush honeysuckle sp.	*Lonicera* sp.
	White mulberry	*M. alba*
	English ivy	*H. helix*

Table 3-32 GENERAL CHARACTERISTICS OF STAND 31	
Percent invasive cover	5% (tree), 75% (understory), 95% (herbaceous)
Number of standing dead trees greater than 6" DBH	15 per acre
Quality	Very poor
Specimen trees	None
Priority ranking	Priority 1 due to the presence of steep slopes

Stand 32

Stand 32 is located in the center of the study area in Montgomery County and is bounded by Piney Branch Road to the north, a concrete stream channel to the east, contiguous forest to the south, and Garland Avenue to the west. Approximately 1.18 acres of Stand 32 is located within the FSD study area. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*). Three specimen trees were surveyed in the northern region of Stand 32. Table 3-33 summarizes the investigation results.

Table 3-33 GENERAL CHARACTERISTICS OF STAND 32		
Topography	Sloping west to east towards gently sloping floodplain	
Approximate size within FSD study area	1.18 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine, upper-perennial (R3) waterway.	
Successional stage	Mid	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	Silver maple	*Acer saccharinum*
	Slippery elm	*Ulmus rubra*
	White mulberry	*Morus alba*
	Bitternut hickory	*Carya cordiformis*
	Cherry sp.	*Prunus* sp.
	Black cherry	*Prunus serotina*
	Norway maple	*Acer platanoides*
Size class of dominant species	12-30 inches DBH or greater	
Basal area	100 square feet/acre	
Percent canopy closure	100%	
Common understory species	Slippery elm	*Ulmus rubra*
	Japanese black blindweed	*Fallopia japonica*
	Cherry sp.	*Prunus* sp.
	Multiflora rose	*Rosa multiflora*
	Poison ivy	*Toxicodendron radicans*
	Amur honeysuckle	*Lonicera maackii*
Percent understory cover	100%	
Common herbaceous species	Amur honeysuckle	*Lonicera maackii*
	Virginia creeper	*P. quinquefolia*
	Lesser periwinkle	*Vinca minor*

Table 3-33 GENERAL CHARACTERISTICS OF STAND 32		
	Poison ivy	*T. radicans*
	English ivy	*Hedera helix*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Amur honeysuckle	*Lonicera maackii*
	Norway maple	*A. platanoides*
	Japanese black blindweed	*Fallopia japonica*
	White mulberry	*M. alba*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	12% (tree), 40% (understory), 85% (herbaceous)	
Number of standing dead trees greater than 6" DBH	20 per acre	
Quality	Poor	
Specimen trees[1]	3	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and a waterway	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 33

Stand 33 is located towards the center of the FSD study area within Montgomery County and is bounded by residential buildings along Manchester and Schuyler Road to the north and east, Wayne Avenue to the south, and Sligo Creek Parkway to the west. Approximately 0.42 acre of Stand 33 is located within the FSD study area. The mixed-deciduous stand is dominated by northern red oak (*Quercus rubra*), black walnut (*Juglans nigra*), and American sycamore (*Platanus occidentalis*). No specimen trees were identified in Stand 33. Table 3-34 summarizes the investigation results.

Table 3-34 GENERAL CHARACTERISTICS OF STAND 33		
Topography	Steep slope from east to west	
Approximate size within FSD study area	0.42 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	Slippery elm	*Ulmus rubra*
	White oak	*Quercus alba*
	Bitternut hickory	*Carya cordiformis*
	Cherry sp.	*Prunus sp.*
	Black cherry	*Prunus serotina*
	Northern red oak	*Quercus rubra*
	Red maple	*Acer rubrum*

Table 3-34 GENERAL CHARACTERISTICS OF STAND 33		
	Chestnut oak	*Quercus prinus*
	Blackgum	*Nyssa sylvatica*
	Willow oak	*Quercus phellos*
	Black locust	*Robinia pseudoacacia*
	Black walnut	*Juglans nigra*
	American sycamore	*Platanus occidentalis*
Size class of dominant species[1]	6-30 inches DBH or greater	
Basal area	122 square feet/acre	
Percent canopy closure	100%	
Common understory species	American beech	*Fagus grandifolia*
	Cherry sp.	*Prunus sp.*
	Spicebush	*Lindera benzoin*
	Highbush blueberry	*Vaccinium corymbosum*
	English ivy	*Hedera helix*
	Southern arrowwood	*Viburnum dentatum*
	Black cherry	*Prunus serotina*
	Privet sp.	*Ligustrum sp.*
	Poison ivy	*Toxicodendron radicans*
	Bush honeysuckle sp.	*Lonicera sp.*
Percent understory cover	100%	
Common herbaceous species	Bush honeysuckle sp.	*Lonicera sp.*
	Virginia creeper	*P. quinquefolia*
	Lesser periwinkle	*Vinca minor*
	Poison ivy	*T. radicans*
	Japanese honeysuckle	*Lonicera japonica*
	Common greenbrier	*Smilax rotundifolia*
	Jack in the pulpit	*Arisaema triphyllum*
	Oriental bittersweet	*Celastrus orbiculata*
	English ivy	*Hedera helix*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera sp.*
	Japanese honeysuckle	*L. japonica*
	Privet sp.	*Ligustrum sp.*
	Oriental bittersweet	*C. orbiculata*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	0% (tree), 25% (understory), 85% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Fair to good	
Specimen trees	None	
Priority ranking	Priority 1 due to presence of steep slopes	

[1]Size class range of co-dominant trees, no dominant trees were present.

Stand 34

Stand 34 is located towards the center of the study area within Montgomery County and is bounded by Wayne Avenue to the north, apartment buildings to the east and south, and Sligo Creek Parkway to the west. Approximately 0.19 acre of Stand 34 is located within the FSD study area. The mixed-deciduous stand is dominated by pin oak (*Quercus palustris*), green ash (*Fraxinus pennsylvanica*), black cherry (*Prunus serotina*), and white oak (*Quercus alba*). One specimen tree was surveyed in Stand 34. Table 3-35 summarizes the investigation results.

Table 3-35
GENERAL CHARACTERISTICS OF STAND 34

Topography	Sloping from south east to northwest	
Approximate size within FSD study area	0.19 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominant species/co-dominant species	White oak	*Quercus alba*
	Pin oak	*Quercus palustris*
	Blackgum	*Nyssa sylvatica*
	Black cherry	*Prunus serotina*
	Green ash	*Fraxinus pennsylvanica*
Size class of dominant species[1]	6-30 inches DBH or greater	
Basal area	107 square feet/acre	
Percent canopy closure	100%	
Common understory species	American beech	*Fagus grandifolia*
	Highbush blueberry	*Vaccinium corymbosum*
	Spicebush	*Lindera benzoin*
	American holly	*Ilex opaca*
	Pignut hickory	*Carya glabra*
	Flowering dogwood	*Carya cordiformis*
	Poison ivy	*Toxicodendron radicans*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	80%	
Common herbaceous species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Virginia creeper	*P. quinquefolia*
	Onion sp.	*Allium* sp.
	Poison ivy	*T. radicans*
	Mapleleaf viburnum	*Viburnum acerifolium*
	Oriental bittersweet	*Celastrus orbiculata*
	Common greenbrier	*Smilax rotundifolia*
	Fox grape	*Vitis labrusca*
	English ivy	*Hedera helix*
Percent herbaceous cover	90%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.

Table 3-35 GENERAL CHARACTERISTICS OF STAND 34		
	Japanese honeysuckle	*L. japonica*
	Oriental bittersweet	*C. orbiculata*
	English ivy	*H. helix*
Percent invasive cover	0% (tree), 5% (understory), 12% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Good	
Specimen trees[2]	1	
Priority ranking	Priority 1 due to the presence of specimen trees	

[1]Size class range of co-dominant trees, no dominant trees were present.
[2]See Table 3-58 for list of specimen trees per stand.

Stand 35

Stand 35 is located towards the center of the study area within Montgomery County and is bounded by Wayne Avenue to the north, a stream channel to the east and south, and residential area to the west. Approximately 0.95 acre of Stand 35 is located within the FSD study area. The mixed-deciduous stand is dominated by American sycamore (*Platanus occidentalis*). No specimen trees were identified in Stand 35. Table 3-36 summarizes the investigation results.

Table 3-36 GENERAL CHARACTERISTICS OF STAND 35		
Topography	Steep slope west to east into flat floodplain	
Approximate size within FSD study area	0.95 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway.	
Successional stage	Early to mid	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	Boxelder	*Acer negundo*
	White mulberry	*Morus alba*
	Bitternut hickory	*Carya cordiformis*
	Prunus sp.	*Prunus sp.*
	American beech	*Fagus grandifolia*
	American sycamore	*Platanus occidentalis*
	Red maple	*Acer rubrum*
	Black walnut	*Juglans nigra*
	White oak	*Quercus alba*
	Norway maple	*Acer platanoides*
Size class of dominant species	30 inches DBH or greater	
Basal area	85 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Spicebush	*Lindera benzoin*
	Boxelder	*Acer negundo*

Table 3-36 GENERAL CHARACTERISTICS OF STAND 35		
	Blackberry sp.	*Rubus sp.*
	Milkweed sp.	*Asclepias sp.*
	Common greenbrier	*Smilax rotundifolia*
	Trumpet creeper	*Campsis radicans*
	Multiflora rose	*Rosa multiflora*
	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera sp.*
Percent understory cover	90%	
Common herbaceous species	Jewelweed	*Impatiens capensis*
	Virginia creeper	*Parthenocissus quinquefolia*
	Fox grape	*V. labrusca*
	Common greenbrier	*S. rotundifolia*
	White mulberry	*Morus alba*
	Oriental bittersweet	*Celastrus orbiculata*
	Poison ivy	*Toxicodendron radicans*
	English ivy	*Hedera helix*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle	*Lonicera* sp.
	White mulberry	*M. alba*
	Oriental bittersweet	*C. orbiculata*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	5% (tree), 12% (understory), 75% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Fair to Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes and a waterway	

Stand 36

Stand 36 is located towards the center of the study area within Montgomery County and is bounded by Spring Street to the northwest, a US Post Office and parking lot to the east, and Metro lines. Approximately 0.69 acre of Stand 36 is located within the FSD study area. The mixed-deciduous stand is dominated by red mulberry (*Morus rubra*) and black walnut (*Juglans nigra*). One specimen tree was surveyed in the western portion of Stand 36. Table 3-37 summarizes the investigation results.

Table 3-37 GENERAL CHARACTERISTICS OF STAND 36	
Topography	Steep slope west to east to small stream valley
Approximate size within FSD study area	0.69 acre
Wetlands	None

Table 3-37 GENERAL CHARACTERISTICS OF STAND 36		
Endangered species habitat	None	
Streams	One riverine, intermittent (R4) waterway.	
Successional stage	Early	
Dominant species/co-dominant species	Red maple	*Acer rubrum*
	Red mulberry	*Morus rubra*
	Silver maple	*Acer saccharinum*
	Black cherry	*Prunus serotina*
	Slippery elm	*Ulmus rubra*
	Boxelder	*Acer negundo*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species[1]	2-11.9 inches DBH	
Basal area	90 square feet/acre	
Percent canopy closure	70%	
Common understory species	Japanese knotweed	*Polygonum cuspidatum*
	Fox grape	*Vitis labrusca*
	Black locust	*R. pseudoacacia*
	Boxelder	*A. negundo*
	Bush honeysuckle	*Lonicera* sp.
Percent understory cover	80%	
Common herbaceous species	Japanese knotweed	*P. cuspidatum*
	Summer grape	*Vitis aestivalis*
	Milkweed sp.	*Asclepias* sp.
	Goldenrod sp.	*Solidago* sp.
	Garlic mustard	*Alliaria petiolata*
	Poison ivy	*Toxicodendron radicans*
	English ivy	*Hedera helix*
Percent herbaceous cover	90%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese knotweed	*P. cuspidatum*
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
Percent invasive cover	0% (tree), 75% (understory), 90% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Good to Poor	
Specimen trees[2]	1	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and a waterway	

[1]Due to the lack of dominant species, the codominant species size class is listed.
[2]See Table 3-58 for list of specimen trees per stand.

Stand 37

Stand 37 is located towards the center of the study area within Montgomery County and is bounded by Metro lines to the northeast, Spring Street to the southeast, and a Blockbuster Video store and parking area to the southwest. Approximately 0.32 acre of Stand 37 is located within

the FSD study area. The mixed-deciduous stand is dominated by black locust (*Robinia pseudoacadia*), tree of heaven (*Ailanthus altissima*), silver maple (*Acer saccharinum*), boxelder (*Acer negundo*), and white pine (*Pinus strobus*). No specimen trees were identified in Stand 37. Table 3-38 summarizes the investigation results.

Table 3-38
GENERAL CHARACTERISTICS OF STAND 37

Topography	Steep slope south to north	
Approximate size within FSD study area	0.32 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	Boxelder	*Acer negundo*
	American elm	*Ulmus americana*
	Black locust	*Robinia pseudoacacia*
	Tree of heaven	*Ailanthus altissima*
	Pin oak	*Quercus phellos*
	Red maple	*Acer rubrum*
	Black walnut	*Juglans nigra*
	Black cherry	*Prunus serotina*
	White pine	*Pinus strobus*
	Silver maple	*Acer saccharinum*
Size class of dominant species[1]	6-11.9 inches DBH	
Basal area	85 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Black locust	*R. pseudoacacia*
	Boxelder	*Acer negundo*
	Red mulberry	*Morus rubra*
	Summer grape	*Vitis aestivalis*
	Japanese knotweed	*Polygonum cuspidatum*
	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	100%	
Common herbaceous species	Japanese knotweed	*P. cuspidatum*
	Garlic mustard	*Alliaria petiolata*
	Fox grape	*V. labrusca*
	Milkweed sp.	*Asclepias* sp.
	Violet sp.	*Viola* sp.
	Carrot sp.	*Daucus* sp.
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese knotweed	*P. cuspidatum*

Table 3-38 GENERAL CHARACTERISTICS OF STAND 37		
	Tree of heaven	*A. altissima*
	Garlic mustard	*P. quinquefolia*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	0% (tree), 60% (understory), 55% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Poor	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

[1]Due to the lack of dominant species, the codominant species size class is listed

Stand 38

Stand 38 is located towards the center of the study area within Montgomery County and is bounded by Metro lines to the north, 16th Street to the east, commercial development and parking to the south, and forest to the west. Approximately 1.33 acres of Stand 38 is located within the FSD study area. The mixed-deciduous stand is co-dominated by red maple (*Acer rubrum*), white pine (*Pinus strobus*), black locust (*Robinia pseudoacacia*), silver maple (*Acer saccharinum*). Fourteen specimen trees were surveyed in Stand 38. Table 3-39 summarizes the investigation results.

Table 3-39 GENERAL CHARACTERISTICS OF STAND 38		
Topography	Sloping north to south	
Approximate size within FSD study area	1.33 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	White pine	*Pinus strobus*
	American sycamore	*Platanus occidentalis*
	Silver maple	*Acer saccharinum*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species[1]	2-19 inches DBH	
Basal area	145 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Summer grape	*Vitis aestivalis*
	Black locust	*R. pseudoacacia*
	Blackberry sp.	*Rubus* sp.
	Privet sp.	*Ligustrum* sp.

Table 3-39 GENERAL CHARACTERISTICS OF STAND 38		
	Common greenbrier	*Smilax rotundifolia*
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*Rosa multiflora*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	100%	
Common herbaceous species	Boxelder	*A. negundo*
	Milkweed sp.	*Asclepias* sp.
	Garlic mustard	*Alliaria petiolata*
	Common greenbrier	*Smilax rotundifolia*
	Poison ivy	*T. radicans*
	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Garlic mustard	*A. petiolata*
	White mulberry	*M. alba*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	5% (tree), 65% (understory), 52% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Good-Poor	
Specimen trees[2]	14	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]Due to the lack of dominant species, the codominant species size class is listed.
[2]See Table 3-58 for list of specimen trees per stand.

Stand 39

Stand 39 is located in the western portion of the study area within Montgomery County and is bounded by Metro lines to the southwest, 16th Street to the east, and designated parking areas and Lytonsville Road to the north. Approximately 1.76 acres of Stand 39 is located within the FSD study area. The mixed-deciduous stand is dominated by black locust (*Robinia pseudoacacia*), white oak (*Quercus alba*), tulip poplar (*Liriodendron tulipfera*), slippery elm (*Ulmus rubra*), and Northern red oak (*Quercus rubra*). Six specimen trees were surveyed throughout Stand 39. Table 3-40 summarizes the investigation results.

Table 3-40 GENERAL CHARACTERISTICS OF STAND 39	
Topography	Steep slope north to south
Approximate size within FSD study area	1.76 acres
Wetlands	None
Endangered species habitat	None

Table 3-40 GENERAL CHARACTERISTICS OF STAND 39		
Streams	None	
Successional stage	Mid	
Dominant species/co-dominant species	Tulip poplar	*Liriodendron tulipifera*
	Slippery elm	*Ulmus rubra*
	White oak	*Quercus alba*
	Northern red oak	*Quercus rubra*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species[1]	6-30 inches DBH	
Basal area	110 square feet/acre	
Percent canopy closure	100%	
Common understory species	English ivy	*Hedera helix*
	Poison ivy	*Lindera benzoin*
	Boxelder	*A. negundo*
	Spicebush	*Lindera benzoin*
	Black locust	*R. pseudoacacia*
	Apple sp.	*Malus* sp.
	Privet sp.	*Ligustrum* sp.
	Slippery elm	*Ulmus rubra*
	Multiflora rose	*Rosa multiflora*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	100%	
Common understory species	Oriental bittersweet	*C. orbiculata*
	Common greenbrier	*Smilax rotundifolia*
	Poison ivy	*Toxicodendron radicans*
	English ivy	*Hedera helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Privet sp.	*Ligustrum sp.*
	White mulberry	*M. alba*
	Oriental bittersweet	*C. orbiculata*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	3% (tree), 47% (understory), 92% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor	
Specimen trees[2]	6	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]Size class range of co-dominant trees, no dominant trees were present.
[2]See Table 3-58 for list of specimen trees per stand.

Stand 40

Stand 40 is located in the western portion of the study area within Montgomery County and is bounded by Grace Church Road to the north, residential neighborhoods to the east, Metro rail lines to the south, and Talbot Avenue to the west. Approximately 0.38 acre of Stand 40 is located within the FSD study area. The mixed-deciduous stand is dominated by black walnut (*Juglans nigra*), black cherry (*Prunus serotina*), black locust (*Robinia pseudoacacia*), and silver maple (*Acer saccharinum*). One specimen tree was surveyed in the northern portion of Stand 40. Table 3-41 summarizes the investigation results.

Table 3-41
GENERAL CHARACTERISTICS OF STAND 40

Topography	Gently sloping to flat	
Approximate size within FSD study area	0.38 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early-mid	
Dominant species/co-dominant species	Black walnut	*Juglans nigra*
	Black locust	*Robinia pseudoacacia*
	Black cherry	*Prunus serotina*
	White mulberry	*Morus alba*
	Silver maple	*Acer saccharinum*
Size class of dominant species	6->30 inches DBH	
Basal area	70 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	English ivy	*Hedera helix*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Oriental bittersweet	*Celastrus orbiculata*
	Pokeweed sp.	*Phytolacca americana*
	Spicebush	*Lindera benzoin*
	Garlic mustard	*Alliaria petiolata*
	Blackberry sp.	*Rubus* sp.
	Virginia creeper	*Parthenocissus quinquefolia*
	Common greenbrier	*Smilax rotundifolia*
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*Rosa multiflora*
	White mulberry	*Morus alba*
Percent understory cover	100%	
Common herbaceous species	Periwinkle	*Vinca minor*
	Violet sp.	*Viola* sp.
	Garlic mustard	*A. petiolata*
	Virgina creeper	*P. quinquefolia*
	Common greenbrier	*S. rotundifolia*
	Poison ivy	*T. radicans*

Table 3-41 GENERAL CHARACTERISTICS OF STAND 40		
	English ivy	*Hedera helix*
	Japanese honeysuckle	*Lonicera japonica*
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Oriental bittersweet	*C. orbiculata*
	Japanese honeysuckle	*L. japonica*
	Garlic mustard	*A. petiolata*
	White mulberry	*M. alba*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	10% (tree), 50% (understory), 62% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor	
Specimen trees[1]	1	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 41

Stand 41 is located towards the center of the study area within Montgomery County and is bounded by Metro lines to the northeast, commercial development to the northwest, Michigan/Talbot Avenue to the southeast, and residential neighborhoods to the south. Approximately 1.80 acres of Stand 41 is located within the FSD study area. The mixed-deciduous stand is dominated by black locust (*Robinia pseudoacacia*) and tulip poplar (*Liriodendron tulipifera)*. No specimen trees were identified in Stand 41. Table 3-42 summarizes the investigation results.

Table 3-42 GENERAL CHARACTERISTICS OF STAND 41		
Topography	Gently sloping	
Approximate size within FSD study area	1.80 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Mid	
Dominant species/co-dominant species	Norway maple	*Acer plantanoides*
	Boxelder	*Acer negundo*
	Sassafras	*Morus alba*
	Tulip poplar	*Liriodendron tulipifera*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	6-19.9 inches DBH	
Basal area	125 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*

Table 3-42 GENERAL CHARACTERISTICS OF STAND 41		
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	English ivy	*Hedera helix*
	Virginia creeper	*Parthenocissus quinquefolia*
	Blackberry sp.	*Rubus* sp.
	Privet sp.	*Ligustrum* sp.
	Japanese knotweed	*Polygonum cuspidatum*
	Garlic mustard	*Alliaria petiolata*
	American holly	*Ilex opaca*
	Multiflora rose	*Rosa multiflora*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	100%	
Common herbaceous species	Japanese knotweed	*P. cuspidatum*
	Blackberry sp.	*Rubus sp.*
	Garlic mustard	*Alliaria petiolata*
	Violet sp.	*Viola* sp.
	Virginia creeper	*P. quinquefolia*
	English ivy	*H. helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Garlic mustard	*A. petiolata*
	Privet sp.	*Lingustrum* sp.
	Japanese knotweed	*P. cuspidatum*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	25% (tree), 40% (understory), 27% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor to fair	
Specimen trees	None	
Priority ranking	Priority 1 due to the presence of steep slopes	

Stand 42

Stand 42 is located in the western portion of the study area within Montgomery County and is bounded by construction yards to the north and southwest, and residential neighborhoods to the north and southeast. Approximately 0.81 acre of Stand 42 is located within the FSD study area. The mixed-deciduous stand is dominated by northern red oak (*Quercus rubra*) and black locust (*Robinia pseudoacacia*). No specimen trees were identified in Stand 42. Table 3-43 summarizes the investigation results.

Table 3-43 GENERAL CHARACTERISTICS OF STAND 42		
Topography	Flat to gently sloping	
Approximate size within FSD study area	0.81 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early-mid	
Dominant species/co-dominant species	Green ash	*Fraxinus pennsylvanica*
	Slippery elm	*Ulmus rubra*
	Northern red oak	*Quercus rubra*
	American sycamore	*Platanus occidentalis*
	Eastern cottonwood	*Populus deltoides*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	12-29.9 inches DBH	
Basal area	95 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Blackberry sp.	*Rubus* sp.
	Privet sp.	*Ligustrum* sp.
	Boxelder	*A. negundo*
	Poison ivy	*Toxicodendron radicans*
	Garlic mustard	*Alliaria petiolata*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	90%	
Common herbaceous species	Blackberry sp.	*Rubus* sp.
	Garlic mustard	*Alliaria petiolata*
	Jack in the pulpit	*Arisaema triphyllum*
	Violet sp.	*Viola* sp.
	Nepalese browntop sp.	*Microstegium vimineum*
	Privet sp.	*Ligustrum* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Bush honeysuckle sp.	*Lonicera* sp.
	Multiflora rose	*R. multiflora*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Nepalese browntop sp.	*Microstegium vimineum*
	Garlic mustard	*A. petiolata*
	Privet sp.	*Lingustrum* sp.
	Japanese knotweed	*P. cuspidatum*
	English ivy	*H. helix*
	Multiflora rose	*R. multiflora*
Percent invasive cover	3% (tree), 40% (understory), 50% (herbaceous)	
Number of standing dead trees greater than 6" DBH	None	
Quality	Fair	

Table 3-43 GENERAL CHARACTERISTICS OF STAND 42	
Specimen trees	None
Priority ranking	Priority 1 due to presence of steep slopes.

Stand 43

Stand 43 is located towards the center of the study area within Montgomery County and is bounded by Metro lines to the north and east, residential neighborhoods to the southeast, and Rosemary Hills Elementary School to the southwest. Approximately 0.30 acre of Stand 43 is located within the FSD study area. The mixed-deciduous stand is dominated by black locust (*Robinia pseudoacacia*), and tulip poplar (*Liriodendron tulipifera*). Two specimen trees were surveyed in the southeast portion of Stand 43. Table 3-44 summarizes the investigation results.

Table 3-44 GENERAL CHARACTERISTICS OF STAND 43		
Topography	Steep slope southwest to northeast along railtracks	
Approximate size within FSD study area	0.30 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominant species/co-dominant species	Red maple	*Acer rubrum*
	Tulip poplar	*Liriodendron tulipifera*
	Green ash	*Fraxinus pennsylvanica*
	Eastern black oak	*Quercus velutina*
	Black walnut	*Juglans nigra*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	12-29.9 inches DBH	
Basal area	122 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	English ivy	*Hedera helix*
	Black locust	*R. pseudoacacia*
	Virginia creeper	*Parthenocissus quinquefolia*
	Apple sp.	*Malus sp.*
	Sassafras	*Sassafras albidum*
	Pokeweed sp.	*Phytolacca americana*
	Garlic mustard	*Alliaria petiolata*
	Red maple	*A. rubrum*
	Oriental bittersweet	*Celastrus orbiculata*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	70%	

Table 3-44 GENERAL CHARACTERISTICS OF STAND 43		
Common herbaceous species	Common yellow oxalis	*Oxalis stricta*
	Blackberry sp.	*Rubus sp.*
	Pokeweed sp.	*Phytolacca americana*
	Garlic mustard	*Alliaria petiolata*
	Japanese honeysuckle	*Lonicera japonica*
	Poison ivy	*Toxicodendron radicans*
	English ivy	*H. helix*
	Bush honeysuckle sp.	*Lonicera* sp.
	Common greenbrier	*Smilx rotundifolia*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Garlic mustard	*A. petiolata*
	Common yellow oxalis	*O. stricta*
	White mulberry	*M. alba*
	Norway maple	*A. plantanoides*
	English ivy	*H. helix*
	Oriental bittersweet	*C. orbiculata*
Percent invasive cover	55% (tree), 30% (understory), 70% (herbaceous)	
Number of standing dead trees greater than 6" DBH	35 per acre	
Quality	Poor	
Specimen trees[1]	2	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 44

Stand 44 is located in the western portion of the study area within Montgomery County at the beginning of the Capital Crescent Trail. Stand 44 is bounded by Stewart Avenue to the northeast, construction yards to the southeast and, commercial development to the west. Approximately 0.48 acre of Stand 44 is located within the FSD study area. The mixed-deciduous stand is dominated by black walnut (*Juglans nigra*), black locust (*Robinia pseudoacacia*), American sycamore (*Planatus occidentalis*), and green ash (*Fraxinus pennsylvanica*). One specimen tree was surveyed in Stand 44. Table 3-45 summarizes the investigation results.

Table 3-45 GENERAL CHARACTERISTICS OF STAND 44		
Topography	Gently sloping towards trail located in the center of the stand	
Approximate size within FSD study area	0.48 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominant species/co-dominant	Silver maple	*Acer saccharinum*

Table 3-45 GENERAL CHARACTERISTICS OF STAND 44		
species	Boxelder	*Acer negundo*
	American sycamore	*Platanus occidentalis*
	Northern catalpa	*Catalpa speciosa*
	White mulberry	*Morus alba*
	Green ash	*Fraxinus pennsylvanica*
	Black walnut	*Juglans nigra*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	6->30 inches DBH	
Basal area	50 square feet/acre	
Percent canopy closure	100%	
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	English ivy	*Hedera helix*
	Black locust	*R. pseudoacacia*
	Slippery elm	*Ulmus rubra*
	Green ash	*F. pennsylvanica*
	Japanese knotweed	*Polygonum cuspidatum*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	40%	
Common herbaceous species	Nepalese browntop	*Microstegium vimineum*
	Violet sp.	*Viola* sp.
	Fox grape	*Vitis labrusca*
	Summer grape	*Vitis aestivalis*
	Indian strawberry	*Duchesnea indica*
	Slippery elm	*U. rubra*
	Common plantain	*Plantago major*
	Multiflora rose	*Rosa mutliflora*
	Garlic mustard	*Alliaria petiolata*
	Japanese honeysuckle	*Lonicera japonica*
	Poison ivy	*Toxicodendron radicans*
	Grass sp.	
	English ivy	*H. helix*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent herbaceous cover	40%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Garlic mustard	*A. petiolata*
	Nepalese browntop	*Microstegium vimineum*
	White mulberry	*M. alba*
	Japanese knotweed	*P. cuspidatum*
	English ivy	*H. helix*
	Oriental bittersweet	*C. orbiculata*
Percent invasive cover	5% (tree), 72% (understory), 62% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Fair to poor	

Table 3-45 GENERAL CHARACTERISTICS OF STAND 44	
Specimen trees[1]	1
Priority ranking	Priority 1 due to the presence of steep slopes and specimen tree

[1]See Table 3-58 for list of specimen trees per stand.

Stand 45

Stand 45 is located in the western portion of the study area within Montgomery County and includes part of the Capital Crescent Trail. Stand 45 bounded by commercial development and Brookville Road to the northwest, construction yards to the east, and Lytonsville Place to the south. Approximately 1.57 acres of Stand 45 is located within the the FSD study area. The mixed-deciduous stand is dominated by silver maple (*Acer saccharinum*), black walnut (*Juglans nigra*), black locust (*Robinia pseudoacacia*), American sycamore *(Planatus occidentalis*), and eastern cottonwood (*Populus deltoides*). One specimen tree was surveyed towards the center of Stand 45. Table 3-46 summarizes the investigation results.

Table 3-46 GENERAL CHARACTERISTICS OF STAND 45		
Topography	Gently sloping to trail in center, steep slopes towards rip rap channel	
Approximate size within FSD study area	1.57 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) waterway	
Successional stage	Early to mid	
Dominant species/co-dominant species	Silver maple	*Acer saccharinum*
	Boxelder	*Acer negundo*
	Eastern cottonwood	*Populus deltoides*
	Northern catalpa	*Catalpa speciosa*
	American sycamore	*Platanus occidentalis*
	Black walnut	*Juglans nigra*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	6-29.9 inches DBH	
Basal area	75 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Summer grape	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Pokeweed sp.	*Phytolacca americana*
	Multiflora rose	*Rosa multiflora*
	Japanese knotweed	*Polygonum cuspidatum*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	70%	
Common herbaceous species	Clearweed	*Pilea* sp.
	Violet sp.	*Viola* sp.

Table 3-46 GENERAL CHARACTERISTICS OF STAND 45		
	Fox grape	*V. labrusca*
	Garlic mustard	*Alliaria petiolata*
	Japanese honeysuckle	*Lonicera japonica*
	Nepalese browntop	*Microstegium vimineum*
	Oriental lady's thumb	*Polygonum cespitosum*
	Japanese knotweed	*Polygonum cuspidatum*
	Virginia creeper	*Parthenocissus quinquefolia*
Percent herbaceous cover	60%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Japanese knotweed	*P. cuspidatum*
	Garlic mustard	*A. petiolata*
	Norway maple	*A. plantanoides*
	Multiflora rose	*R. multiflora*
	Nepalese browntop	*Microstegium vimineum*
Percent invasive cover	3% (tree), 75% (understory), 27% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor to fair	
Specimen trees[1]	1	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes and stream	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 46

Stand 46 is located in the western portion of the study area within Montgomery County and includes part of the Capital Crescent Trail. Stand 46 is bounded by commercial development to the north, south, and east, and residential neighborhoods along Terrace Drive and Grubb Road. Approximately 6.08 acres of Stand 46 is located within the FSD study area. The mixed-deciduous stand is dominated by black locust (*Robinia pseudoacacia*), tulip poplar (*Liriodendron tulipifera*), eastern cottonwood (*Populus deltoides*), and black cherry (*Prunus serotina*). Twenty-six specimen trees were surveyed in the central and western portion of Stand 46. Table 3-47 summarizes the investigation results.

Table 3-47 GENERAL CHARACTERISTICS OF STAND 46		
Topography	Flat to gently sloping towards trail	
Approximate size within FSD study area	6.08 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominant species/co-dominant species	Boxelder	*Acer negundo*
	Red maple	*Acer rubrum*
	Tulip poplar	*Liriodendron tulipifera*

Table 3-47 GENERAL CHARACTERISTICS OF STAND 46		
	Tree of heaven	*Ailanthus altissima*
	Green ash	*Fraxinus pennsylvanica*
	Eastern cottonwood	*Populus deltoides*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	6->30 inches or greater DBH	
Basal area	95 square feet/acre	
Percent canopy closure	100%	
Common understory species	Boxelder	*A. negundo*
	Poison ivy	*Toxicodendron radicans*
	Privet sp.	*Ligustrum* sp.
	English ivy	*Hedera helix*
	Slippery elm	*U. rubra*
	Blackberry sp.	*Rubus* sp.
	Apple sp.	*Malus* sp.
	Sassafras	*S. albidum*
	Bush honeysuckle sp.	*Lonicera* sp.
Percent understory cover	40%	
Common herbaceous species	Common yellow oxalis	*Oxalis stricta*
	Blackberry sp.	*Rubus* sp.
	Violet sp.	*Viola* sp.
	Sassafras	*S. albidum*
	Japanese honeysuckle	*Lonicera japonica*
	Summer grape	*Vitis aestivalis*
	Christmas fern	*Polystichum acrostichoides*
	Browntop sp.	*Microstegium vimineum*
	Wild carrot	*Daucus pusillus*
	Poison ivy	*T. radicans*
	English ivy	*H. helix*
	Oriental bittersweet	*Celastrus orbiculata*
	Bush honeysuckle sp.	*Lonicera* sp.
	Common greenbrier	*Smilx rotundifolia*
Percent herbaceous cover	40%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Oriental bittersweet	*C. orbiculata*
	Common yellow oxalis	*O. stricta*
	Privet sp.	*Ligustrum sp.*
	Browntop sp.	*Microstegium vimineum*
	English ivy	*H. helix*
	Oriental bittersweet	*C. orbiculata*
Percent invasive cover	5% (tree), 57% (understory), 50% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Fair	
Specimen trees[1]	26	

Table 3-47 GENERAL CHARACTERISTICS OF STAND 46	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes

[1]See Table 3-58 for list of specimen trees per stand.

Stand 47

Stand 47 is located in the western portion of the study area within Montgomery County to the south of the Capital Crescent Trail. Stand 47 is bounded by the Capital Crescent Trail to the north, apartment complexes to the east, open field to the south, and the Rock Creek Trail to the west. Approximately 8.62 acres of Stand 47 is located within the FSD study area. The mixed-deciduous stand is dominated by black walnut (*Juglans nigra*), green ash (*Fraxinus pennsylvanica*), tulip poplar (*Liriodendron tulipifera*), and American sycamore (*Plantus occidentalis*). Thirteen specimen trees were surveyed in Stand 47. Table 3-48 summarizes the investigation results.

Table 3-48 GENERAL CHARACTERISTICS OF STAND 47		
Topography	Steep slope to swale to manicured lawn; second plot on floodplain	
Approximate size within FSD study area	8.62 acres	
Wetlands	Four palustrine, forested (PFO) wetlands	
Endangered species habitat	None	
Streams	One riverine, lower-perennial (R2) waterway	
Successional stage	Early to mid	
Dominant species/co-dominant species	River birch	*Betula nigra*
	American sycamore	*Plantus occidentalis*
	Boxelder	*Acer negundo*
	Tulip poplar	*Liriodendron tulipifera*
	Green ash	*Fraxinus pennsylvanica*
	Sweetgum	*Liquidambar styraciflua*
	Black walnut	*Juglans nigra*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	6-29.9 inches DBH	
Basal area	110 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Bush honeysuckle sp.	*Lonicera* sp.
	Oriental bittersweet	*Celastrus orbiculata*
	Spicebush	*Lindera benzoin*
	Privet sp.	*Ligustrum* sp.
Percent understory cover	90%	
Common herbaceous species	Periwinkle sp.	*Vinca* sp.
	Blackberry sp.	*Rubus sp.*
	Multiflora rose	*Rosa multiflora*
	Spicebush	*L. benzoin*

Table 3-48 GENERAL CHARACTERISTICS OF STAND 47		
	Oriental bittersweet	*C. orbiculata*
	Virginia creeper	*Parthenocissus quinquefolia*
	Mile-a-minute	*Polygonum perfoliatum*
	Bush honeysuckle sp.	*Lonicera* sp.
	Summergrape	*Vitis aestivalis*
	Fox grape	*Vtis labrusca*
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Privet sp.	*Ligustrum* sp.
	Multiflora rose	*R. multiflora*
	Mile-a-minute	*P. perfoliatum*
	Oriental bittersweet	*C. orbiculata*
Percent invasive cover	20% (tree), 75% (understory), 42% (herbaceous)	
Number of standing dead trees greater than 6" DBH	10 per acre	
Quality	Poor to fair	
Specimen trees[1]	13	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, wetlands, and a waterway	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 48

Stand 48 is located in the western portion of the study area within Montgomery County and includes part of the Capital Crescent Trail. Stand 48 is bounded by residential neighborhoods to the north and south along Hamlet Place. Approximately 7.54 acres of Stand 48 is located within the FSD study area. The mixed-deciduous stand is dominated by northern catalpa (*Catalpa speciosa*), black locust (*Robinia pseudoacacia*), tulip poplar (*Liriodendron tulipifera*), and eastern cottonwood (*Populus deltoides*). Forty-two specimen trees were surveyed in the center of Stand 48. Table 3-49 summarizes the investigation results.

Table 3-49 GENERAL CHARACTERISTICS OF STAND 48		
Topography	Gently sloping northwest to southeast toward floodplain; steep slope to trail in center	
Approximate size within FSD study area	7.54 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	Two riverine, intermittent (R4) waterways.	
Successional stage	Early to mid	
Dominant species/co-dominant species	American sycamore	*Plantus occidentalis*
	Eastern cottonwood	*Populus deltoides*
	Tulip poplar	*Liriodendron tulipifera*
	Sassafras	*Sassafras albidum*
	Northern catalpa	*Catalpa speciosa*

Table 3-49 GENERAL CHARACTERISTICS OF STAND 48		
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	20-29.9 inches DBH	
Basal area	65 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Multiflora rose	*Rosa multiflora*
	Bush honeysuckle sp.	*Lonicera* sp.
	Spicebush	*Lindera benzoin*
	Norway maple	*Acer plantanoides*
	American beech	*F. grandifolia*
	English ivy	*Hedera helix*
	Privet sp.	*Ligustrum* sp.
Percent understory cover	70%	
Common herbaceous species	Periwinkle sp.	*Vinca* sp.
	Violet sp.	*Viola* sp.
	Fox grape	*V. labrusca*
	Spicebush	*L. benzoin*
	Virgina creeper	*Parthenocissus quinquefolia*
	Norway maple	*Acer platanoides*
	Oriental lady's thumb	*Polygonum cespitosum*
	Oriental bittersweet	*Celastrus orbiculatus*
	Nepalese browntop	*Microstegium vimineum*
	Garlic mustard	*Alliaria petiolata*
	Christmas fern	*Polystichum acrostichoides*
	Poison ivy	*T. radicans*
	English ivy	*H. helix*
Percent herbaceous cover	70%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Privet sp.	*Ligustrum* sp.
	Multiflora rose	*R. multiflora*
	Nepalese browntop	*Microstegium vimineum*
	Norway maple	*A. plantanoides*
	Garlic mustard	*A. petiolata*
	Oriental lady's thumb	*P. cespitosum*
	Oriental bittersweet	*C. orbiculata*
Percent invasive cover	22% (tree), 27% (understory), 47% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Good	
Specimen trees[1]	42	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and waterways	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 49

Stand 49 is located in the western portion of the study area within Montgomery County and includes part of the Capital Crescent Trail. It is bounded by Newdale Road to the north, Connecticut Avenue (MD-185) to the east, forest to the south, and the Columbia Country Club to the west. Approximately 1.83 acres of Stand 49 is located within the FSD study area. The mixed-deciduous stand is dominated by black locust (*Robinia pseudoacacia*), American sycamore (*Planatus occidentalis*), and eastern cottonwood (*Populus deltoides*). Eight specimen trees were surveyed in Stand 49. Table 3-50 summarizes the investigation results.

Table 3-50
GENERAL CHARACTERISTICS OF STAND 49

Topography	Gently sloping northwest to southeast	
Approximate size within FSD study area	1.83 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominantspecies/co-dominant species	American sycamore	*Plantus occidentalis*
	Green ash	*Fraxinus pennsylvanica*
	Boxelder	*Acer negundo*
	Eastern cottonwood	*Populus deltoides*
	Silver maple	*Acer saccharinum*
	Black walnut	*Juglans nigra*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	12->30 inches or greater DBH	
Basal area	160 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Bush honeysuckle sp.	*Lonicera* sp.
	Green ash	*F. pennsylvanica*
	Norway maple	*Acer plantanoides*
	Northern catalpa	*C. speciosa*
	English ivy	*Hedera helix*
Percent understory cover	80%	
Common herbaceous species	Periwinkle sp.	*Vinca* sp.
	Violet sp.	*Viola* sp.
	False nettle	*Bohemeria cylindrica*
	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*Lonicera japonica*
	Indian strawberry	*Duchesnea indica*
	Garlic mustard	*Alliaria petiolata*
	English ivy	*H. helix*

Table 3-50 GENERAL CHARACTERISTICS OF STAND 49		
Percent herbaceous cover	100%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Japanese honeysuckle	*L. japonica*
	Norway maple	*A. plantanoides*
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
	White mulberry	*M. alba*
Percent invasive cover	17% (tree), 35% (understory), 83% (herbaceous)	
Number of standing dead trees greater than 6" DBH	25 per acre	
Quality	Fair to poor	
Specimen trees	8	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 50

Stand 50 is located in the western portion of the study area within Montgomery County and includes part of the Capital Crescent Trail. Stand 50 is bounded by residential neighborhoods along Kentbury Drive to the north, Columbia Country Club to the east, and East-West Highway (MD-410) to the south and west. Approximately 4.25 acres of Stand 50 is located within the FSD study area. The mixed-deciduous stand is dominated by American sycamore (*Planatus occidentalis*), white oak (*Quercus alba*), black locust (*Robinia pseudoacacia*), and tulip poplar (*Liriodendron tulipifera*). Ten specimen trees were surveyed throughout Stand 50. Table 3-51 summarizes the investigation results.

Table 3-51 GENERAL CHARACTERISTICS OF STAND 50		
Topography	Sloping toward trail in center	
Approximate size within FSD study area	4.25 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Early to mid	
Dominant species/co-dominant species	American sycamore	*Plantus occidentalis*
	Red cedar	*Juniperus virginiana*
	White oak	*Quercus alba*
	Pin oak	*Quercus palustris*
	Tulip poplar	*Liriodendron tulipifera*
	Red maple	*Acer rubrum*
	Silver maple	*Acer saccharinum*
	Norway maple	*Acer plantanoides*
	Black walnut	*Juglans nigra*
	Black cherry	*Prunus serotina*
	Black locust	*Robinia pseudoacacia*

Table 3-51 GENERAL CHARACTERISTICS OF STAND 50		
Size class of dominant species	6->30 inches or greater DBH	
Basal area	80 square feet/acre	
Percent canopy closure	100%	
Common understory species	Fox grape	*Vitis labrusca*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Sassafras	*S. albidum*
	Spicebush	*Lindera benzoin*
	Summer grape	*Vitis aestivalis*
	Black bamboo	*Phyllostachys nigra*
	Black cherry	*P. serotina*
	English ivy	*Hedera helix*
	Blackberry sp.	*Rubus* sp.
Percent understory cover	70%	
Common herbaceous species	Poison ivy	*T. radicans*
	Violet sp.	*Viola* sp.
	Nepalese browntop	*Microstegium vimineum*
	Summer grape	*V. aestivalis*
	Black bamboo	*Phyllostachys nigra*
	Japanese honeysuckle	*Lonicera japonica*
	Blackberry sp.	*Rubus sp.*
	Black locust	*R. pseudoacacia*
	Virgina creeper	*Parthenocissus quinquefolia*
	Periwinkle sp.	*Vinca* sp.
	Grass sp.	Gramineae sp.
	Garlic mustard	*Alliaria petiolata*
	English ivy	*H. helix*
Percent herbaceous cover	60%	
Invasive exotic species	Japanese honeysuckle	*L. japonica*
	Black bamboo	*Phyllostachys nigra*
	Nepalese browntop	*Microstegium vimineum*
	Norway maple	*A. plantanoides*
	Garlic mustard	*A. petiolata*
	English ivy	*H. helix*
Percent invasive cover	12% (tree), 32% (understory), 50% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Fair	
Specimen trees[1]	10	
Priority ranking	Priority 1 due to the presence of specimen trees and steep slopes	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 51

Stand 51 is located in the western most portion of the study area within Montgomery County and includes part of the Capital Crescent Trail. Stand 51 is bounded by East-West Highway (MD

410) to the north, residential neighborhoods along Lynn Drive to the east and south, and Montgomery Avenue to the west. Approximately 1.76 acres of Stand 51 is located within the FSD study area. The mixed-deciduous stand is dominated by tulip poplar (*Liriodendron tulipifera*), black locust (*Robinia pseudoacacia*), and Norway maple (*Acer plantanoides*). Fourteen specimen trees were surveyed in the center of Stand 51. Table 3-52 summarizes the investigation results.

Table 3-52
GENERAL CHARACTERISTICS OF STAND 51

Topography	Gently sloping east towards trail	
Approximate size within FSD study area	1.76 acres	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine, intermittent (R4) waterway.	
Successional stage	Early to mid	
Dominant species/co-dominant species	Slippery elm	*Ulmus rubra*
	American beech	*Fagus grandifolia*
	Boxelder	*Acer negundo*
	Pin oak	*Quercus phellos*
	Tulip poplar	*Liriodendron tulipifera*
	Norway maple	*Acer plantanoides*
	Green ash	*Fraxinus pennsylvanica*
	Black locust	*Robinia pseudoacacia*
Size class of dominant species	12->30 inches DBH	
Basal area	80 square feet/acre	
Percent canopy closure	90%	
Common understory species	Black locust	*R. pseudoacacia*
	Poison ivy	*Toxicodendron radicans*
	Boxelder	*A. negundo*
	Black bamboo	*Phyllostachys nigra*
	Bush honeysuckle sp.	*Lonicera* sp.
	Slippery elm	*U. rubra*
	Norway maple	*Acer plantanoides*
	Summer grape	*Vitis aestivalis*
	American beech	*F. grandifolia*
	English ivy	*Hedera helix*
	Oriental bittersweet	*Celastrus orbiculata*
Percent understory cover	60%	
Common herbaceous species	Periwinkle sp.	*Vinca* sp.
	Fox grape	*Vitis labrusca*
	Violet sp.	*Viola* sp.
	Poison ivy	*T. radicans*
	Grass sp.	Gramineae sp.
	English ivy	*H. helix*
Percent herbaceous cover	50%	
Invasive exotic species	Bush honeysuckle sp.	*Lonicera* sp.
	Norway maple	*A. plantanoides*

Table 3-52 GENERAL CHARACTERISTICS OF STAND 51		
	English ivy	*H. helix*
	White mulberry	*M. alba*
	Black bamboo	*Phyllostachys nigra*
	Oriental bittersweet	*C. orbiculata*
Percent invasive cover	22% (tree), 27% (understory), 57% (herbaceous)	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Fair	
Specimen trees[1]	14	
Priority ranking	Priority 1 due to the presence of specimen trees, steep slopes, and a waterway	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 52

Stand 52 is located in the eastern-most portion of the study area in Prince George's County and is adjacent to Stand 1. Ellin Road constitutes the southern boundary of the stand, while 78th Avenue and Decatur Road are found immediately north. Approximately 0.63 acre of Stand 52 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), red maple (*Acer rubrum*), black willow (*Salix nigra*), and northern catalpa (*Catalpa speciosa*). No specimen trees were surveyed in Stand 52. Table 3-53 summarizes the investigation results.

Table 3-53 GENERAL CHARACTERISTICS OF STAND 52		
Topography	Flat	
Approximate size within FSD study area	0.63 acre	
Wetlands	One palustrine forested (PFO) wetland.	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) waterway.	
Successional stage	Early	
Dominant species/co-dominant species	Sweetgum	*Liquidambar styraciflua*
	Red maple	*Acer rubrum*
	Black willow	*Salix nigra*
	Northern catalpa	*Catalpa speciosa*
Size class of dominant species	2-19.9 inches DBH	
Basal area	60 square feet/acre	
Percent canopy closure	90%	
Common understory species	Sweetgum	*Liquidambar styraciflua*
	Red maple	*Acer rubrum*
	Southern arrowwood	*Viburnum dentatum*
	Black willow	*Salix nigra*
	Silky dogwood	*Cornus amomum*
	Northern catalpa	*Catalpa speciosa*
	Multiflora rose	*Rosa multiflora*
Percent understory cover	60%	

Table 3-53 GENERAL CHARACTERISTICS OF STAND 52		
Common herbaceous species	Sensitive fern	*Onoclea sensibilis*
	Fowl manna grass	*Glyceria striata*
	Japanese honeysuckle	*Lonicera japonica*
	Fig buttercup	*Ficaria verna*
	Garlic mustard	*Alliaria petiolata*
	Poison ivy	*Toxicodendron radicans*
Percent herbaceous cover	45%	
Invasive exotic species	Multiflora rose	*Rosa multiflora*
	Garlic mustard	*Alliaria petiolata*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	45% in plot	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor	
Specimen trees[1]	None	
Priority ranking	Priority 1 due to the presence of a wetland and a waterway.	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 53

Stand 53 is located in the eastern-most portion of the study area in Prince George's County, between Stands 2 and 4. The intersection of Decatur Road and 77th Place is just north of Stand 53, while Ellin Road constitutes the southernmost boundary. Approximately 0.85 acre of Stand 53 is located within the FSD study area. The mixed-deciduous stand is dominated by slippery elm (*Ulmus rubra*), black locust (*Robinia pseudoacacia*), and Siberian elm (*Ulmus pumila*). No specimen trees were surveyed in Stand 53. Table 3-54 summarizes the investigation results.

Table 3-54 GENERAL CHARACTERISTICS OF STAND 53		
Topography	Gently sloping southwest to northeast	
Approximate size within FSD study area	0.85 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) waterway.	
Successional stage	Early-Mid	
Dominant species/co-dominant species	Slippery elm	*Ulmus rubra*
	Black locust	*Robinia pseudoacacia*
	Siberian elm	*Ulmus pumila*
Size class of dominant species	2-19.9 inches DBH	
Basal area	70 square feet/acre	
Percent canopy closure	80%	
Common understory species	Slippery elm	*Ulmus rubra*
	Red maple	*Acer rubrum*
	Multiflora rose	*Rosa multiflora*
	Poison ivy	*Toxicodendron radicans*
	English ivy	*Hedera helix*

Table 3-54 GENERAL CHARACTERISTICS OF STAND 53		
	Japanese honeysuckle	*Lonicera japonica*
	Rose of Sharon	*Hibiscus syriacus*
Percent understory cover	60%	
Common herbaceous species	Stickywilly	*Gallium aparine*
	Meadow garlic	*Allium canadense*
Percent herbaceous cover	30%	
Invasive exotic species	Multifora rose	*Rosa multiflora*
	English ivy	*Hedera helix*
	Rose of Sharon	*Hibiscus syriacus*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	70% in plot	
Number of standing dead trees greater than 6" DBH	5 per acre	
Quality	Poor	
Specimen trees[1]	None	
Priority ranking	Priority 1 due to the presence of a waterway.	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 54

Stand 54 is located in the eastern-most portion of the study area in Prince George's County, southeast of Stand 14. The terminus of Patterson Street is just north of Stand 54, while the terminus of Rosalie Lane is located immediately to the south. The stand is bounded by forest to the west and a maintained utility easement to the east. Approximately 0.30 acre of Stand 54 is located within the FSD study area. The mixed-deciduous stand is dominated by chestnut oak (*Quercus primus*), blackgum (*Nyssa sylvatica*), red maple (*Acer rubrum*), sweetgum (*Liquidambar styraciflua*) and sassafras *(Sassafrass albidium*). No specimen trees were surveyed in Stand 54. Table 3-55 summarizes the investigation results.

Table 3-55 GENERAL CHARACTERISTICS OF STAND 54		
Topography	Sloping southeast to northwest	
Approximate size within FSD study area	0.30 acre	
Wetlands	None	
Endangered species habitat	None	
Streams	None	
Successional stage	Mid	
Dominant species/co-dominant species	Chestnut oak	*Quercus primus*
	Blackgum	*Nyssa sylvatica*
	Red maple	*Acer rubrum*
	Sweetgum	*Liquidambar styraciflua*
	sassafras	*Sassafrass albidum*
Size class of dominant species	6->30 inches DBH	
Basal area	100 square feet/acre	
Percent canopy closure	100%	
Common understory species	Chestnut oak	*Quercus primus*

Table 3-55 GENERAL CHARACTERISTICS OF STAND 54		
	Blackgum	*Nyssa sylvatica*
	Mountain laurel	*Kalmia latifolia*
	Poison ivy	*Toxicodendron radicans*
	Pink azalea	*Rhododendron periclymenoides*
	Multiflora rose	*Rosa multiflora*
	Southern crabapple	*Malus angustifolia*
Percent understory cover	100%	
Common herbaceous species	Poison ivy	*Toxicodendron radicans*
	Multiflora rose	*Rosa multiflora*
	Japanese honeysuckle	*Lonicera japonica*
Percent herbaceous cover	20%	
Invasive exotic species	Multiflora rose	*Rosa multiflora*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	10% in plot	
Number of standing dead trees greater than 6" DBH	20 per acre	
Quality	Good	
Specimen trees[1]	None	
Priority ranking	Priority 3	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 55

Stand 55 is located in the eastern-most portion of the study area in Prince George's County, between 64th Avenue and the Baltimore Washington Parkway and is bounded by Riverdale Road to the south, townhomes to the west, and forest to the north. Approximately 1.26 acres of Stan 55 is located within the FSD study area. The mixed-deciduous stand is dominated by sweetgum (*Liquidambar styraciflua*), black locust (*Robinia pseudoacacia*), black willow (*Salix nigra*), box elder (*Acer negundo*), and Siberian elm (*Ulmus pumila*). One specimen tree was surveyed in the southwestern portion of Stand 55. Table 3-56 summarizes the investigation results.

Table 3-56 GENERAL CHARACTERISTICS OF STAND 55		
Topography	Flat	
Approximate size within FSD study area	1.26 acres	
Wetlands	Two palustrine forested (PFO) wetlands.	
Endangered species habitat	None	
Streams	One riverine intermittent (R4) waterway.	
Successional stage	Early	
Dominant species/co-dominant species	Sweetgum	*Liquidambar styraciflua*
	Black locust	*Robinia pseudoacacia*
	Black willow	*Salix nigra*
	Box elder	*Acer negundo*
	Siberian elm	*Ulmus pumila*
Size class of dominant species	2-11.9 inches DBH	
Basal area	65 square feet/acre	

Table 3-56 GENERAL CHARACTERISTICS OF STAND 55		
Percent canopy closure	90%	
Common understory species	Sweetgum	*Liquidambar styraciflua*
	Box elder	*Acer negundo*
	Red maple	*Acer rubrum*
	Southern crabapple	*Malus angustifolia*
	Japanese honeysuckle	*Lonicera japonica*
	English ivy	*Hedera helix*
	Multifora rose	*Rosa multiflora*
	Amur honeysuckle	*Lonicera mackii*
Percent understory cover	90%	
Common herbaceous species	Common chickweed	*Stellaria media*
	Japanese honeysuckle	*Lonicera japonica*
	English ivy	*Hedera helix*
	Meadow garlic	*Allium canadense*
Percent herbaceous cover	100%	
Invasive exotic species	Multiflora rose	*Rosa multiflora*
	English ivy	*Hedera helix*
	Amur honeysuckle	*Lonicera mackii*
	Common chickweed	*Stellaria media*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	90% in plot	
Number of standing dead trees greater than 6" DBH	0 per acre	
Quality	Poor	
Specimen trees[1]	None	
Priority ranking	Priority 1 due to the presence of a specimen tree, two wetlands and a waterway.	

[1]See Table 3-58 for list of specimen trees per stand.

Stand 56

Stand 56 is located in the eastern-most portion of the study area in Prince George's County, just east of Stand 22. Stand 56 is bounded by River Road to the north, Haig Drive to the west and south, and forest to the east. The study area contains 1.25 acres of Stand 56. The mixed-deciduous stand is dominated by red maple (*Acer rubrum*), black locust (*Robinia pseudoacacia*), and black cherry (*Prunus serotina*). No specimen trees were surveyed in Stand 56. Table 3-57 summarizes the investigation results.

Table 3-57 GENERAL CHARACTERISTICS OF STAND 56	
Topography	Flat
Approximate size within study area	1.25 Acres
Wetlands	None
Endangered species habitat	None
Streams	None

Table 3-57 GENERAL CHARACTERISTICS OF STAND 56		
Successional stage	Early	
Dominant species/co-dominant species	Red maple	*Acer rubrum*
	Black locust	*Robinia pseudocacia*
	Black cherry	*Prunus serotina*
Size class of dominant species	2-19.9 inches DBH	
Basal area	105 square feet/acre	
Percent canopy closure	100%	
Common understory species	Amur honeysuckle	*Lonicera mackii*
	Japanese honeysuckle	*Lonicera japonica*
	Allegheny blackberry	*Rubus allegheniensis*
	Virginia creeper	*Parthenocissus quinquefolia*
	Poison ivy	*Toxicodendron radicans*
Percent understory cover	70%	
Common herbaceous species	Common chickweed	*Stellaria media*
	Japanese honeysuckle	*Lonicera japonica*
	Sticky-willy	*Gallium aparine*
	Hairy bittercress	*Cardamine hirsuta*
	Trumpet creeper	*Campsis radicans*
Percent herbaceous cover	80%	
Invasive exotic species	Multiflora rose	*Rosa multiflora*
	English ivy	*Hedera helix*
	Amur honeysuckle	*Lonicera mackii*
	Common chickweed	*Stellaria media*
	Japanese honeysuckle	*Lonicera japonica*
Percent invasive cover	55% in plot	
Number of standing dead trees greater than 6" DBH	15 per acre	
Quality	Poor	
Specimen trees[1]	None	
Priority ranking	Priority 3	

[1]See Table 3-58 for list of specimen trees per stand.

3.3 TREE INVENTORY

A specimen tree is defined by MDNR as a tree exhibiting a diameter at breast height (DBH) of 30 inches or greater or trees having 75% opr more of the diameter of the current State champion (MDNR, 1997). A total of 30 species of specimen trees and 301 individuals were identified within the FSD study area. Table 3-58 presents the size, species, and condition of each tree, and the Environmental Features Maps (Appendix B) present the location and size of each tree.

Table 3-58 SPECIMEN TREES					
Tree ID	**Common Name**	**Scientific Name**	**DBH (inches)**	**Condition**	**Map No.**
1	red maple	*Acer rubrum*	37.0	Poor	1

Table 3-58 SPECIMEN TREES					
2	red maple	*Acer rubrum*	47.0	Fair	1
3	slippery elm	*Ulmus rubra*	50.0	Good	1
4	black walnut	*Juglans nigra*	31.7	Good	1
5	black walnut	*Juglans nigra*	30.5	Good	1
6	tulip poplar	*Liriodendron tulipifera*	40.0	Fair	1
7	black walnut	*Juglans nigra*	34.0	Good	1
8	tulip poplar	*Liriodendron tulipifera*	40.0	Fair	1
9	tulip poplar	*Liriodendron tulipifera*	32.0	Good	1
10	tulip poplar	*Liriodendron tulipifera*	37.2	Good	1
11	tulip poplar	*Liriodendron tulipifera*	35.0	Good	1
12	tulip poplar	*Liriodendron tulipifera*	45.0	Good	1
13	tulip poplar	*Liriodendron tulipifera*	37.1	Good	1
14	tulip poplar	*Liriodendron tulipifera*	33.6	Good	1
15	tulip poplar	*Liriodendron tulipifera*	38.9	Fair	1
16	pin oak	*Quercus palustris*	34.4	Good	1
17	tulip poplar	*Liriodendron tulipifera*	35.0	Good	1
18	tulip poplar	*Liriodendron tulipifera*	31.0	Good	1
19	red maple	*Acer rubrum*	35.0	Good	1
20	eastern cottonwood	*Populus deltoides*	41.0	Fair	2
21	red maple	*Acer rubrum*	36.1	Fair	2
22	American sycamore	*Platanus occidentalis*	38.6	Good	2
23	willow oak	*Quercus phellos*	34.0	Good	2
24	tulip poplar	*Liriodendron tulipifera*	38.2	Good	2
25	tulip poplar	*Liriodendron tulipifera*	33.3	Fair	2
26	tulip poplar	*Liriodendron tulipifera*	36.7	Fair	2
27	tulip poplar	*Liriodendron tulipifera*	45.7	Good	2
28	tulip poplar	*Liriodendron tulipifera*	42.7	Good	2
29	tulip poplar	*Liriodendron tulipifera*	32.8	Good	2
30	tulip poplar	*Liriodendron tulipifera*	40.8	Good	2
31	American sycamore	*Platanus occidentalis*	38.7	Good	2
32	black oak	*Quercus velutina*	36.0	Good	2
33	willow oak	*Quercus phellos*	30.0	Good	2
34	tulip poplar	*Liriodendron tulipifera*	35.0	Good	2
35	white pine	*Pinus strobus*	30.0	Good	2
36	tulip poplar	*Liriodendron tulipifera*	30.0	Good	2
37	tulip poplar	*Liriodendron tulipifera*	30.0	Good	2
38	tulip poplar	*Liriodendron tulipifera*	32.0	Good	2
39	tulip poplar	*Liriodendron tulipifera*	38.0	Good	2
40	tulip poplar	*Liriodendron tulipifera*	38.0	Good	2
41	tulip poplar	*Liriodendron tulipifera*	44.5	Good	2

Table 3-58 SPECIMEN TREES					
42	American sycamore	*Platanus occidentalis*	46.7	Good	2
43	American sycamore	*Platanus occidentalis*	46.0	Poor	2
44	silver maple	*Acer saccharinum*	41.7	Fair	2 & 3
45	silver maple	*Acer saccharinum*	38.2	Fair	2 & 3
46	silver maple	*Acer saccharinum*	49.5	Fair	2 & 3
47	eastern cottonwood	*Populus deltoides*	43.5	Good	2 & 3
48	eastern cottonwood	*Populus deltoides*	43.4	Fair	2 & 3
49	silver maple	*Acer saccharinum*	59.6	Fair	3
50	silver maple	*Acer saccharinum*	41.6	Fair	3
51	black locust	*Robinia pseudoacacia*	36.1	Fair	3
52	black locust	*Robinia pseudoacacia*	34.7	Poor	3
53	silver maple	*Acer saccharinum*	43.7	Fair	3
54	silver maple	*Acer saccharinum*	41.3	Poor	3
55	silver maple	*Acer saccharinum*	35.5	Fair	3
56	black locust	*Robinia pseudoacacia*	37.4	Poor	3
57	black locust	*Robinia pseudoacacia*	44.3	Fair	3
58	silver maple	*Acer saccharinum*	38.4	Good	3
59	American sycamore	*Platanus occidentalis*	38.8	Good	3
60	silver maple	*Acer saccharinum*	42.0	Fair	3
61	silver maple	*Acer saccharinum*	35.5	Poor	3
62	tulip poplar	*Liriodendron tulipifera*	35.0	Good	3
63	black walnut	*Juglans nigra*	33.9	Good	3
64	black locust	*Robinia pseudoacacia*	33.7	Fair	3
65	American sycamore	*Platanus occidentalis*	34.5	Good	3
66	American sycamore	*Platanus occidentalis*	36.0	Fair	3
67	northern catalpa	*Catalpa speciosa*	34.3	Poor	3
68	American sycamore	*Platanus occidentalis*	36.7	Good	3
69	silver maple	*Acer saccharinum*	33.5	Fair	3
70	black locust	*Robinia pseudoacacia*	32.0	Fair	3
71	black cherry	*Prunus serotina*	30.0	Fair	3
72	eastern cottonwood	*Populus deltoides*	32.1	Fair	3
73	silver maple	*Acer saccharinum*	35.0	Fair	3
74	silver maple	*Acer saccharinum*	43.5	Fair	3
75	silver maple	*Acer saccharinum*	50.0	Good	3
76	eastern cottonwood	*Populus deltoides*	33.2	Good	3
77	eastern cottonwood	*Populus deltoides*	31.0	Fair	3
78	tulip poplar	*Liriodendron tulipifera*	35.9	Good	3
79	silver maple	*Acer saccharinum*	43.0	Good	3
80	silver maple	*Acer saccharinum*	47.4	Fair	3
81	silver maple	*Acer saccharinum*	48.2	Fair	3

Table 3-58 SPECIMEN TREES					
82	eastern cottonwood	*Populus deltoides*	34.1	Fair	3
83	silver maple	*Acer saccharinum*	37.5	Fair	3
84	black walnut	*Juglans nigra*	41.5	Good	3
85	tulip poplar	*Liriodendron tulipifera*	35.3/38.7	Good	3
86	tulip poplar	*Liriodendron tulipifera*	31.8	Good	3
87	tulip poplar	*Liriodendron tulipifera*	30.1	Good	3
88	tulip poplar	*Liriodendron tulipifera*	34.2	Good	3
89	tulip poplar	*Liriodendron tulipifera*	31.3	Good	3
90	tulip poplar	*Liriodendron tulipifera*	32.8	Good	3
91	tulip poplar	*Liriodendron tulipifera*	30.7	Good	3
92	tulip poplar	*Liriodendron tulipifera*	42.0	Good	3
93	tulip poplar	*Liriodendron tulipifera*	34.5	Good	3
94	tulip poplar	*Liriodendron tulipifera*	32.6	Good	3
95	tulip poplar	*Liriodendron tulipifera*	40.2/40.1	Good	3
96	tulip poplar	*Liriodendron tulipifera*	32.5	Good	3
97	tulip poplar	*Liriodendron tulipifera*	34.4	Good	3
98	tulip poplar	*Liriodendron tulipifera*	38.2	Good	3
99	tulip poplar	*Liriodendron tulipifera*	42.1	Good	3
100	tulip poplar	*Liriodendron tulipifera*	35.2	Good	3
101	tulip poplar	*Liriodendron tulipifera*	33.4	Fair	3
102	tulip poplar	*Liriodendron tulipifera*	31.8	Good	3
103	tulip poplar	*Liriodendron tulipifera*	32.3	Good	3
104	tulip poplar	*Liriodendron tulipifera*	37.9	Good	3
105	tulip poplar	*Liriodendron tulipifera*	46.3	Good	3
106	tulip poplar	*Liriodendron tulipifera*	30.0	Good	3
107	tulip poplar	*Liriodendron tulipifera*	30.0	Good	3
108	tulip poplar	*Liriodendron tulipifera*	32.5/32.0	Fair	3 & 4
109	tulip poplar	*Liriodendron tulipifera*	31.3	Good	3 & 4
110	American sycamore	*Platanus occidentalis*	33.0	Good	4
111	American sycamore	*Platanus occidentalis*	31.1	Fair	4
112	American sycamore	*Platanus occidentalis*	32.9	Good	4
113	tulip poplar	*Liriodendron tulipifera*	39.8	Good	4
114	tulip poplar	*Liriodendron tulipifera*	44.6	Good	4
115	tulip poplar	*Liriodendron tulipifera*	39.0	Poor	4
116	green ash	*Fraxinus pennsylvanica*	35.9	Good	4
117	tulip poplar	*Liriodendron tulipifera*	32.5	Good	4
118	tulip poplar	*Liriodendron tulipifera*	31.5	Fair	4
119	tulip poplar	*Liriodendron tulipifera*	34.0	Fair	4
120	tulip poplar	*Liriodendron tulipifera*	37.0	Fair	4
121	tulip poplar	*Liriodendron tulipifera*	31.0	Good	4

Table 3-58 SPECIMEN TREES					
122	tulip poplar	*Liriodendron tulipifera*	36.7	Good	4
123	tulip poplar	*Liriodendron tulipifera*	42.6	Good	4
124	tulip poplar	*Liriodendron tulipifera*	30.5	Good	4
125	American sycamore	*Platanus occidentalis*	58.0	Fair	4
126	American sycamore	*Platanus occidentalis*	31.1	Good	4
127	American sycamore	*Platanus occidentalis*	41.0	Fair	4
128	box elder	*Acer negundo*	33.2	Fair	4
129	eastern cottonwood	*Populus deltoides*	36.0	Fair	4
130	tulip poplar	*Liriodendron tulipifera*	33.4	Good	4
131	tulip poplar	*Liriodendron tulipifera*	35.5	Fair	4
132	black locust	*Robinia pseudoacacia*	31.9	Fair	4
133	black locust	*Robinia pseudoacacia*	30.2	Fair	4
134	black locust	*Robinia pseudoacacia*	37.7	Fair	4
135	slippery elm	*Ulmus rubra*	30.6	Poor	4
136	tulip poplar	*Liriodendron tulipifera*	32.5	Good	4
137	tulip poplar	*Liriodendron tulipifera*	31.7	Fair	4
138	tulip poplar	*Liriodendron tulipifera*	31.9	Good	4 & 5
139	tulip poplar	*Liriodendron tulipifera*	33.0	Good	4 & 5
140	tulip poplar	*Liriodendron tulipifera*	38.6	Good	4 & 5
141	tulip poplar	*Liriodendron tulipifera*	34.7	Good	4 & 5
142	black locust	*Robinia pseudoacacia*	31.5	Fair	5
143	tulip poplar	*Liriodendron tulipifera*	41.6	Good	5
144	tulip poplar	*Liriodendron tulipifera*	36.3	Good	5
145	tulip poplar	*Liriodendron tulipifera*	52.0	Good	5
146	tulip poplar	*Liriodendron tulipifera*	31.8	Good	5
147	tulip poplar	*Liriodendron tulipifera*	30.6	Good	5
148	tulip poplar	*Liriodendron tulipifera*	38.6	Good	5
149	tulip poplar	*Liriodendron tulipifera*	30.5	Good	5
150	tulip poplar	*Liriodendron tulipifera*	36.1	Fair	5
151	tulip poplar	*Liriodendron tulipifera*	35.1	Good	5
152	shingle oak	*Quercus imbricaria*	36.9	Good	5
153	pin oak	*Quercus palustris*	54.2	Fair	5
154	tulip poplar	*Liriodendron tulipifera*	40.1	Poor	5
155	American sycamore	*Platanus occidentalis*	32.5	Poor	5
156	silver maple	*Acer saccharinum*	50.4	Good	6
157	tulip poplar	*Liriodendron tulipifera*	55.0	Good	6
158	black oak	*Quercus velutina*	34.3	Fair	6
159	tulip poplar	*Liriodendron tulipifera*	38.8	Good	6
160	tulip poplar	*Liriodendron tulipifera*	43.5	Fair	6
161	American sycamore	*Platanus occidentalis*	32.2	Fair	6

Table 3-58 SPECIMEN TREES					
162	tulip poplar	*Liriodendron tulipifera*	38.7	Poor	6
163	tulip poplar	*Liriodendron tulipifera*	34.6	Poor	6
164	tulip poplar	*Liriodendron tulipifera*	42.0	Fair	6
165	tulip poplar	*Liriodendron tulipifera*	30.9	Fair	6
166	tulip poplar	*Liriodendron tulipifera*	36.5	Fair	6
167	tulip poplar	*Liriodendron tulipifera*	33.0	Poor	6
168	tulip poplar	*Liriodendron tulipifera*	32.5	Poor	6
169	tulip poplar	*Liriodendron tulipifera*	39.0	Good	6
170	tulip poplar	*Liriodendron tulipifera*	34.0	Good	6
171	tulip poplar	*Liriodendron tulipifera*	32.4	Fair	6
172	tulip poplar	*Liriodendron tulipifera*	47.9	Fair	6
173	tulip poplar	*Liriodendron tulipifera*	38.7	Fair	6
174	tulip poplar	*Liriodendron tulipifera*	47.7	Fair	6
175	tulip poplar	*Liriodendron tulipifera*	31.8	Good	6
176	tulip poplar	*Liriodendron tulipifera*	45.8	Fair	6
177	American sycamore	*Platanus occidentalis*	40.5	Fair	6
178	tulip poplar	*Liriodendron tulipifera*	31.8	Good	6
179	tulip poplar	*Liriodendron tulipifera*	33.8	Good	6
180	tulip poplar	*Liriodendron tulipifera*	41.0	Good	6
181	silver maple	*Acer saccharinum*	32.6	Fair	6 & 7
182	tulip poplar	*Liriodendron tulipifera*	37.0	Good	7
183	silver maple	*Acer saccharinum*	42.3	Fair	7
184	tulip poplar	*Liriodendron tulipifera*	33.7	Good	7
185	silver maple	*Acer saccharinum*	32.5	Good	7
186	silver maple	*Acer saccharinum*	33.7	Good	7
187	silver maple	*Acer saccharinum*	36.2	Fair	7
188	silver maple	*Acer saccharinum*	47.1	Poor	7
189	pin oak	*Quercus palustris*	34.6	Good	7
190	green ash	*Fraxinus pennsylvanica*	43.4	Good	7
191	pin oak	*Quercus palustris*	34.5	Good	7
192	pin oak	*Quercus palustris*	31.6	Good	7
193	pin oak	*Quercus palustris*	35.8	Good	8
194	pin oak	*Quercus palustris*	34.8	Good	8
195	pin oak	*Quercus palustris*	32.6	Good	8
196	pin oak	*Quercus palustris*	34.7	Good	8
197	pin oak	*Quercus palustris*	38.2	Good	8
198	pin oak	*Quercus palustris*	36.7	Good	8
199	sweetbay magnolia	*Magnolia virginiana*	40.2	Good	8
200	silver maple	*Acer saccharinum*	32.1	Fair	8
201	silver maple	*Acer saccharinum*	44.3	Fair	8

Table 3-58 SPECIMEN TREES					
202	silver maple	*Acer saccharinum*	32.4	Good	8
203	silver maple	*Acer saccharinum*	40.9	Good	8
204	black locust	*Robinia pseudoacacia*	32.0	Good	8
205	cedar	*Cupressaceae* sp.	33.5	Good	8
206	bald cypress	*Taxodium mucronatum*	39.7	Good	8
207	silver maple	*Acer saccharinum*	46.5	Good	8
208	pin oak	*Quercus palustris*	36.6	Good	8 & 9
209	pin oak	*Quercus palustris*	31.4	Good	8 & 9
210	pin oak	*Quercus palustris*	36.1	Good	8 & 9
211	tulip poplar	*Liriodendron tulipifera*	41.0	Good	9
212	pin oak	*Quercus palustris*	33.1	Good	9
213	red maple	*Acer rubrum*	30.2	Good	9
214	tulip poplar	*Liriodendron tulipifera*	36.5	Good	9
215	silver maple	*Acer saccharinum*	41.0	Good	9
216	pin oak	*Quercus palustris*	41.7	Good	9
217	tulip poplar	*Liriodendron tulipifera*	40.0	Good	9
218	silver maple	*Acer saccharinum*	35.5	Fair	9
219	pin oak	*Quercus palustris*	35.7	Good	9
220	willow oak	*Quercus phellos*	38.6	Good	9
221	silver maple	*Acer saccharinum*	32.0	Fair	9
222	southern red oak	*Quercus falcata*	45.0	Good	9
223	shingle oak	*Quercus imbricaria*	32.0	Good	9
224	tulip poplar	*Liriodendron tulipifera*	41.2	Good	9
225	river birch	*Betula nigra*	32.7	Fair	9
226	tulip poplar	*Liriodendron tulipifera*	34.8	Good	9
227	tulip poplar	*Liriodendron tulipifera*	37.6	Good	9
228	tulip poplar	*Liriodendron tulipifera*	33.9	Good	9
229	pin oak	*Quercus palustris*	39.6	Good	9
230	pin oak	*Quercus palustris*	30.0	Good	9
231	pin oak	*Quercus palustris*	37.5	Good	9
232	tulip poplar	*Liriodendron tulipifera*	40.0	Good	10
233	tulip poplar	*Liriodendron tulipifera*	33.8	Fair	10
234	tulip poplar	*Liriodendron tulipifera*	32.8	Fair	10
235	tulip poplar	*Liriodendron tulipifera*	34.0	Good	10 & 11
236	black cherry	*Prunus serotina*	45.1	Fair	11
237	honeylocust	*Gleditsia triacanthos*	33.0/31.0	Poor	11
238	white oak	*Quercus alba*	33.5	Good	10 & 11
239	white oak	*Quercus alba*	32.0	Fair	11
240	pin oak	*Quercus palustris*	35.3	Good	11
241	pin oak	*Quercus palustris*	30.7	Good	11

Table 3-58 SPECIMEN TREES					
242	oak sp.	*Quercus* sp.	31.2	Good	11
243	pin oak	*Quercus palustris*	30.0	Fair	12
244	pin oak	*Quercus palustris*	35.0	Fair	12
245	northern red oak	*Quercus rubra*	35.1	Good	14
246	green ash	*Fraxinus pennsylvanica*	34.7	Good	14
247	tulip poplar	*Liriodendron tulipifera*	37.3	Good	14
248	American sycamore	*Platanus occidentalis*	34.8	Fair	14
249	American sycamore	*Platanus occidentalis*	32.5	Fair	14
250	red maple	*Acer rubrum*	31.9	Poor	14
251	American sycamore	*Platanus occidentalis*	36.6	Fair	14
252	willow oak	*Quercus phellos*	33.8	Fair	14
253	willow oak	*Quercus phellos*	33.5	Fair	14
254	willow oak	*Quercus phellos*	32.4	Good	14
255	pin oak	*Quercus palustris*	37.8	Good	14
256	pin oak	*Quercus palustris*	39.6	Good	14
257	pin oak	*Quercus palustris*	36.6	Good	14
258	pin oak	*Quercus palustris*	33.5	Fair	14 & 15
259	pin oak	*Quercus palustris*	31.7	Good	14 & 15
260	pin oak	*Quercus palustris*	39.1	Fair	14 & 15
261	willow oak	*Quercus phellos*	32.0	Good	15
262	willow oak	*Quercus phellos*	31.0	Fair	15
263	northern catalpa	*Catalpa speciosa*	53.5	Good	15
264	bald cypress	*Taxodium mucronatum*	34.6	Good	15
265	pin oak	*Quercus palustris*	32.5	Good	15
266	sweetgum	*Liquidambar styraciflua*	31.9	Good	15
267	willow oak	*Quercus phellos*	30.0	Fair	15
268	sawtooth oak	*Quercus acutissima*	37.2	Good	15 & 16
269	willow oak	*Quercus phellos*	33.2	Good	16
270	willow oak	*Quercus phellos*	33.3	Good	16
271	willow oak	*Quercus phellos*	41.5	Good	16
272	willow oak	*Quercus phellos*	34.9	Good	16
273	willow oak	*Quercus phellos*	39.0	Good	16
274	willow oak	*Quercus phellos*	31.4	Good	16
275	willow oak	*Quercus phellos*	47.4	Good	16
276	willow oak	*Quercus phellos*	38.1	Good	16
277	willow oak	*Quercus phellos*	31.2	Good	16
278	honey locust	*Gleditsia triacanthos*	30.4	Fair	16
279	willow oak	*Quercus phellos*	39.3	Good	16
280	willow oak	*Quercus phellos*	37.0	Good	16
281	willow oak	*Quercus phellos*	31.9	Good	16

Table 3-58 SPECIMEN TREES					
282	pin oak	*Quercus palustris*	32.8	Good	16
283	pin oak	*Quercus palustris*	44.7	Good	16
284	willow oak	*Quercus phellos*	33.3	Good	16
285	white oak	*Quercus alba*	36.4	Good	18
286	loblolly pine	*Pinus taeda*	31.8	Fair	18
287	white oak	*Quercus alba*	32.7	Fair	18
288	white oak	*Quercus alba*	32.8	Fair	18
289	white oak	*Quercus alba*	34.0	Fair	18
290	white oak	*Quercus alba*	31.0	Good	18
291	white oak	*Quercus alba*	33.9	Good	18
292	southern red oak	*Quercus falcata*	34.0	Fair	18
293	tulip poplar	*Liriodendron tulipifera*	36.4	Fair	19
294	red maple	*Acer rubrum*	31.0	Poor	19
295	red maple	*Acer rubrum*	31.4	Fair	19
296	tulip poplar	*Liriodendron tulipifera*	43.4	Fair	19
297	tulip poplar	*Liriodendron tulipifera*	42.4	Poor	19
298	tulip poplar	*Liriodendron tulipifera*	34.4	Good	19
299	tulip poplar	*Liriodendron tulipifera*	38.4	Good	19
300	willow oak	*Quercus phellos*	43.0	Good	19
301	sweetgum	*Liquidambar styraciflua*	32.0	Fair	19
302	eastern cottonwood	*Populus deltoides*	36.1	Fair	19
303	tulip poplar	*Liriodendron tulipifera*	31.0	Good	20
304	swamp white oak	*Quercus bicolor*	47.5	Good	20
305	northern red oak	*Quercus rubra*	31.5	Fair	20
306	willow oak	*Quercus phellos*	48.0	Fair	21
307	white oak	*Quercus alba*	44.8	Good	21
308	pin oak	*Quercus palustris*	47.7	Good	21
309	chestnut oak	*Quercus prinus*	36.2	Good	23
310	willow oak	*Quercus phellos*	43.4	Good	23
311	tulip poplar	*Liriodendron tulipifera*	31.5	Good	23
312	tulip poplar	*Liriodendron tulipifera*	32.0	Good	23
313	tulip poplar	*Liriodendron tulipifera*	44.0	Good	23
314	white oak	*Quercus alba*	38.0	Good	24
315	northern red oak	*Quercus rubra*	47.5	Good	24

4 CONCLUSIONS

A total of 56 forest stands, totaling 52 acres, were identified with the FSD study area (See Table 4-1). A total of 54 acres of the forest stands are located in Prince George's County, and 46 acres

of the forest stands are located in Montgomery County. A total of 48 acres of forests are being impacted by the FEIS LOD. There were 315 specimen trees identified within and adjacent to the study area (see Table 3-58; 73 of the specimen trees are located in Prince George's County, and 242 of the specimen trees are located in Montgomery County). A priority ranking of 1 was assigned to 46 forest stands due to presence of streams, wetlands, 100-year floodplains, steep slopes, and/or specimen trees. A priority ranking of 3 was assigned to six stands. Three of the identified forest stands are not within the study area and therefore were not assigned a retention priority ranking.

Table 4-1 FOREST STANDS WITHIN THE FSD STUDY AREA

Stand	Size (Acres) within Project Area		Retention Priority
	100' Buffer	FEIS LOD	
1	1.18	0.30	3
2	1.64	0.29	1; due to specimen trees, steep slopes, wetlands, and waterways
3	1.17	0.24	1; due to steep slopes
4	0.05	0.00	3
5	0.00	0.00	N/A; located outside of study area
6	1.55	1.40	1; due to steep slopes
7	2.71	5.19	1; due to specimen trees , steep slopes, and waterways
8	0.15	0.02	3
9	0.00	0.00	N/A; located outside of study area
10	0.54	0.00	1; due to the presence of wetlands and waterways
11	0.00	0.00	N/A; located outside of study area
12	0.17	0.39	1; due to steep slopes
13	1.09	1.63	1; due to steep slopes
14	1.82	1.07	1; due to steep slopes and wetlands
15	0.55	0.34	1; due to steep slopes
16	1.64	0.05	3
17	0.77	0.00	1; due to steep slopes
18	0.37	0.00	1; due to specimen trees and steep slopes
19	3.46	1.69	1; due to specimen trees and steep slopes
20	2.05	0.68	1; due to the presence of specimen trees, steep slopes, and streams
21	0.12	0.10	1; due to steep slopes and waterways
22	2.14	0.84	1; due to wetlands and waterways
23	0.44	0.10	3
24	2.95	2.07	1; due to specimen trees, steep slopes, and waterways
25	1.89	0.22	1; due to steep slopes, wetlands, and waterways
26	0.26	0.43	3

Table 4-1 FOREST STANDS WITHIN THE FSD STUDY AREA			
Stand	Size (Acres) within Project Area		Retention Priority
	100' Buffer	FEIS LOD	
27	1.15	0.71	1; due to the presence of specimen trees, steep slopes, wetlands and waterways
28	1.79	0.68	1; due to the presence of steep slopes, waterway, and wetlands
29	0.94	0.39	1; due to specimen trees, steep slopes, and waterways
30	0.56	0.99	1; due to steep slopes and waterways
31	0.28	0.12	1; due to steep slopes
32	0.73	0.45	1; due to specimen trees, steep slopes, and waterways
33	0.38	0.04	1; due to steep slopes
34	0.15	0.04	1; due to specimen trees
35	0.69	0.26	1; due to steep slopes and waterways
36	0.02	0.67	1; due to specimen trees, steep slopes, and waterways
37	0.02	0.30	1; due to steep slopes
38	0.41	0.92	1; due to specimen trees and steep slopes
39	1.22	0.54	1; due to specimen trees and steep slopes
40	0.17	0.21	1; due to specimen trees and steep slopes
41	0.34	1.46	1; due to steep slopes
42	0.73	0.08	1; due to steep slopes
43	0.00	0.30	1; due to specimen trees and steep slopes
44	0.08	0.40	1; due to specimen trees and steep slopes
45	0.17	1.40	1; due to the presence of specimen trees, steep slopes and stream
46	1.27	4.81	1; due to specimen trees and steep slopes
47	4.59	4.03	1; due to specimen trees and steep slopes, wetlands, and waterways
48	1.40	6.14	1; due to specimen trees and steep slopes, and waterways
49	0.90	0.93	1; due to specimen trees
50	1.43	2.82	1; due to specimen trees and steep slopes
51	0.90	0.86	1; due to specimen trees, steep slopes, and waterways
52	0.50	0.13	1; due to wetlands and waterways
53	0.78	0.06	1; due to waterways
54	0.30	0.00	3
55	0.98	0.28	1; due to specimen trees, wetlands, and waterways.
56	0.69	0.55	3
Total	52	48	

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USFWS. 1981-2002. *NWI Map for Prince George's County, Maryland*. St. Petersburg, FL

APPENDIX A

REGULATORY AGENCY CORRESPONDENCE

MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Joseph P. Gill, Deputy Secretary

RECEIVED
NOV - 1 2011
OFFICE OF PLANNING

October 26, 2011

Mr. John Newton
Maryland Transit Administration
6 Saint Paul Street
Baltimore, MD 21202-1614

RE: Environmental Review for Proposed Purple Line Transit Project, Prince George's and Montgomery Counties, Maryland.

Dear Mr. Newton:

The Wildlife and Heritage Service's database indicates that there is a waterbird colony located within close proximity to the proposed project site. The approximate location of the colony site is indicated on the attached map. Heronries are a rare resource that should be protected. Conservation of the few Great Blue Heron colonies that are located outside of the Chesapeake Bay Critical Area is strongly encouraged. Significant mortality of chicks or eggs resulting from disturbance of the colony during the breeding season is a violation of the U.S. Migratory Bird Treaty Act. Disturbance includes actions such as cutting nest trees, cutting nearby trees or nearby construction that causes abandonment of chicks by the adults. We would like the opportunity to review project details for the area near the waterbird colony as they are developed. It is likely that we would recommend a time-of-year restriction on work that falls within ¼-mile of the colony.

Our analysis of the information provided also suggests that the forested area on or adjacent to the project site contains Forest Interior Dwelling Bird habitat. Populations of many Forest Interior Dwelling Bird Species (FIDS) are declining in Maryland and throughout the eastern United States. The conservation of FIDS habitat is strongly encouraged by the Department of Natural Resources. The following guidelines will help minimize the project's impacts on FIDS and other native forest plants and wildlife:

1. Avoid placement of new roads or related construction in the forest interior. If forest loss or disturbance is absolutely unavoidable, restrict development to the perimeter of the forest (i.e., within 300 feet of the existing forest edge), and avoid road placement in areas of high quality FIDS habitat (e.g., old-growth forest). Maximize the amount of remaining contiguous forested habitat.

2. Do not remove or disturb forest habitat during April-August, the breeding season for most FIDS. This seasonal restriction may be expanded to February-August if certain early nesting FIDS (e.g., Barred Owl) are present.

3. Maintain forest habitat as close as possible to the road, and maintain canopy closure where possible.

4. Maintain grass height at least 10" during the breeding season (April-August).

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

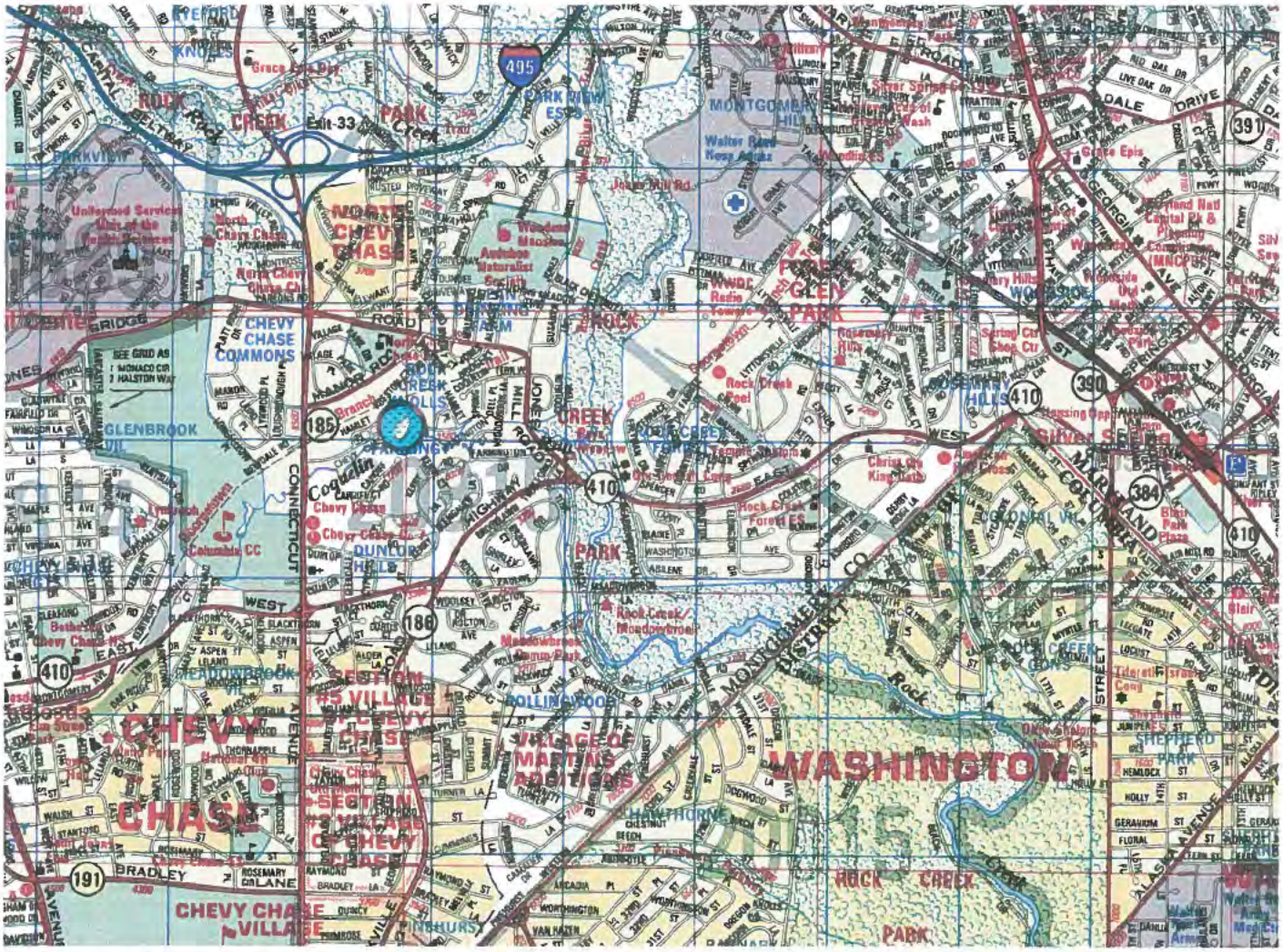
Sincerely,

Lori A. Byrne

Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2011.1383.pg/mo
Cc: T. Redman, DNR
D. Brinker, DNR
Attachment

approximate location of Coquelin Run colony



MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Joseph P. Gill, Deputy Secretary

Coordination Sheet for Maryland Department of Natural Resources, Environmental Review Unit information on fisheries resources, including anadromous fish, related to project locations and study areas

12-AUS-053

DATE OF REQUEST: 9/30/2011
NAME: Bridgette Garner (Coastal Resources) PHONE: 443-837-2145

PROJECT NAME / LOCATION / DESCRIPTION: Purple Line Transit Study, Montgomery County and Prince George's County, MD (16 mile transit Project)

NAME OF STREAM(S) (and MDE Use Classification) WITHIN THE STUDY AREA: Coquelin Run (Use I-P, Rock Creek-Use I-p; Sligo Creek-Use I-P; Long Branch- Use I-P; Paint Branch-Use I-P Northeast Branch- Use I-P; Northwest Branch-north of MD 410-Use IV, Northwest Branch remaining segments Use I-P

SUB-BASIN (6 digit watershed): 02-14-02 (Washington Metropolitan Area)

DNR RESPONSE (sections below to be completed by MD DNR):

___X___ Generally, no instream work is permitted in Use I streams during the period of March 1 through June 15, inclusive, during any year.

___X___Generally, no instream work should be conducted in Use IV streams during the period March 1 through May 31 inclusive, during any year.

ADDITIONAL FISHERIES RESOURCE NOTES:

Fish species documented by DNR in locations in proximity to the project work areas including various streams noted above include Blacknose Dace, Longnose Dace, Green Sunfish, Fantail Darter among others.

ADDITIONAL COMMENTS ON BEST MANAGEMENT PRACTICES:

Areas designated for the access of equipment and for the removal or disposal of material required to support construction should avoid impacts to these stream systems and associated riparian vegetation. Any temporarily disturbed areas should be restored and re-vegetated. Any use of concrete or grouting required to construct improvements should be managed to assure curing processes do not impact these stream systems or modify PH.

Any expected potential fish species should be adequately protected by the Use I and IV work prohibition time of year restriction referenced above, through sediment and erosion control measures, and application of other Best Management Practices.

MD DNR, Environmental Review Unit signature

DATE: -------1-9-2011----------

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Habitat Conservation Division
Chesapeake Bay Program Office
410 Severn Ave., Suite 107A
Annapolis, Maryland 21403

May 9, 2012

MEMORANDUM TO: John Newton
Maryland Transit Administration

FROM: John S. Nichols

SUBJECT: Purple Line

This pertains to impacts to National Marine Fisheries Service (NMFS) trust resources from the proposed Purple Line Rapid Transit Connection in Montgomery and Prince George's Counties. NMFS attended an interagency field review of the Purple Line corridor on May 9, 2012. NEPA coordination comments and recommendations made by NMFS during that review are provided below. Our final comments on this project will be made to the Corps of Engineers during their Section 404 regulatory review.

NMFS concerns are focused on the eastern portion of the corridor in Prince George's County; specifically, proposed impacts to Paint Branch, Brier Ditch, and the Northeast Branch of the Anacostia River. These waterways are documented or potential spawning ground for anadromous blueback herring, alewife, and hickory shad; and, nursery ground for catadromous American eel. Paint Branch, in particular, has substrate and water quality of high suitability for migratory fish.

Our chief concern pertains to the proposed rail line section along Paint Branch Parkway in College Park, adjacent to the University of Maryland campus (i.e., Impact 13, Jurisdictional Determination Materials Package, May 2012 [JDMP]). Based on discussions with your environmental consultant (Coastal Resources), we have learned that the proposed rail line will be situated along the north side of the parkway, paralleling a tributary to Paint Branch for a distance of approximately 600 feet, at a distance of less than 50 feet from the stream channel. The riparian buffer along this section of Paint Branch, comprised of wooded and grassed areas, is narrow, increasing the vulnerability of the stream to impacts from project construction, and run-off from new impervious surface. We offer the following recommendations regarding Impact 13 along Paint Branch.

1. The integrity of the Paint Branch riparian zone should not be compromised by the Paint Branch Parkway section of rail. If the rail line must be situated along the north side of Paint Branch Parkway, if is preferred that the parkway be realigned, slightly, to the south (i.e., toward University of Maryland campus, thereby providing space for the rail line along the north side of the parkway without creating new impervious surface, and without affecting the riparian zone of Paint Branch. If this is not feasible, the rail line should hug the north-side shoulder of Paint Branch Parkway, minimizing, to the maximum degree, impacts to the riparian zone.

2. Stormwater run-off from the proposed rail line should be adequately treated prior to discharge to the Paint Branch watershed. Direct discharge of run-off from the rail line

to the Paint Branch is unacceptable. Opportunities for retrofitting existing untreated stormwater discharges to Paint Branch should be investigated.

3. There should be no net loss of Paint Branch wooded riparian zone along the Impact 13 section of the corridor. Opportunities for expanding the wooded riparian zone should be investigated (e.g., by converting grassed areas to woodland; i.e., restricting mowing, and allowing volunteer wooded growth to develop).

The proposed crossing of the Northeast Branch of the Anacostia River (Impact 15, JDMP) will use an existing bridge structure to support the rail line. However, because stream flow diversion will be used during construction of the crossing, in-stream work (cofferdam installation and removal, pile driving, fill or rock placement) should be restricted in Northeast Branch during the anadromous fish spawning period; i.e., February 15 - June 15, of any year.

The proposed Glenridge Maintenance Facility (Impact 18, JDMP) will affect an unnamed tributary to Brier Ditch (WUS 48, JDMP). Based on discussions during the May 9th interagency field review, we understand that the Limit of Disturbance boundary for the Maintenance Facility has been relocated to avoid this tributary. However, we also recommend that a no-disturbance buffer be maintained along the east side of the tributary, which extends from the stream channel to the top of an embankment along the tributary.

Finally, impacts along the western portions of the rail corridor (i.e., in Montgomery County) will affect reaches of stream systems that lie upstream of natural fall line barriers to anadromous fish. Therefore, NMFS will not comment on issues pertaining to the Montgomery County section of the project corridor.

If you have any questions, please contact me at (410) 267-5675; or, John.Nichols@NOAA.GOV.

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
55 Great Republic Drive
Gloucester, MA 01930-2276

OCT - 5 2011

John Newton
Maryland Transit Administration
Maryland Department of Transportation
6 Saint Paul Street
Baltimore, Maryland 21202-1614

Re: Purple Line Transit Project

Dear Mr. Newton,

This is in response to your letter dated September 22, 2011, requesting information on the presence of species listed by NOAA's National Marine Fisheries Service (NMFS) in the vicinity of the proposed Purple Line Transit Project located in Montgomery and Prince George's Counties, Maryland.

No federally listed or proposed threatened or endangered species and/or designated critical habitat for listed species under the jurisdiction of NMFS are known to exist in the vicinity of your proposed project. Based on this information, NMFS does not intend to offer additional comments on this proposal and thus, no further coordination with NMFS Protected Resources Division is needed. Should project plans change or new information become available that changes the basis for this determination, further coordination should be pursued. If you have any questions regarding these comments, please contact Danielle Palmer at (978) 282-8468.

Sincerely,

for Mary A. Colligan
Assistant Regional Administrator
for Protected Resources

EC: Palmer
File Code: Sec 7 No Species Present 2011

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, Maryland 21401
http://www.fws.gov/chesapeakebay

October 27, 2011

Coastal Resources, Inc.
25 Old Solomons Island road
Annapolis, MD 21401

RE: MD Transit Purple Line Project Montgomery and Prince Georges Counties MD

Dear Bridgette Gamer:

This responds to your letter, received September 30, 2011, requesting information on the presence of species which are federally listed or proposed for listing as endangered or threatened within the vicinity of the above reference project area. We have reviewed the information you enclosed and are providing comments in accordance with section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Except for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist within the project impact area. Therefore, no Biological Assessment or further section 7 Consultation with the U.S. Fish and Wildlife Service is required. Should project plans change, or if additional information on the distribution of listed or proposed species becomes available, this determination may be reconsidered.

This response relates only to federally protected threatened or endangered species under our jurisdiction. For information on the presence of other rare species, you should contact Lori Byrne of the Maryland Wildlife and Heritage Division at (410) 260-8573.

Effective August 8, 2007, under the authority of the Endangered Species Act of 1973, as amended, the U.S. Fish and Wildlife Service (Service) removed (delist) the bald eagle in the lower 48 States of the United States from the Federal List of Endangered and Threatened Wildlife. However, the bald eagle will still be protected by the Bald and Golden Eagle Protection Act, Lacey Act and the Migratory Bird Treaty Act. As a result, starting on August 8, 2007, if your project may cause "disturbance" to the bald eagle, please consult the "National Bald Eagle Management Guidelines" dated May 2007.

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If any planned or ongoing activities cannot be conducted in compliance with the National Bald Eagle Management Guidelines (Eagle Management Guidelines), please contact the Chesapeake Bay Ecological Services Field Office at 410-573-4573 for technical assistance. The Eagle Management Guidelines can be found at: **http://www.fws.gov/migratorybirds/issues/BaldEagle/NationalBaldEagleManagementGuidelines.pdf.**

In the future, if your project can not avoid disturbance to the bald eagle by complying with the Eagle Management Guidelines, you will be able to apply for a permit that authorizes the take of bald and golden eagles under the Bald and Golden Eagle Protection Act, generally where the take to be authorized is associated with otherwise lawful activities. This proposed permit process will not be available until the Service issues a final rule for the issuance of these take permits under the Bald and Golden Eagle Protection Act.

An additional concern of the Service is wetlands protection. Federal and state partners of the Chesapeake Bay Program have adopted an interim goal of no overall net loss of the Basin's remaining wetlands, and the long term goal of increasing the quality and quantity of the Basin's wetlands resource base. Because of this policy and the functions and values wetlands perform, the Service recommends avoiding wetland impacts. All wetlands within the project area should be identified, and if construction in wetlands is proposed, the U.S. Army Corps of Engineers, Baltimore District, should be contacted for permit requirements. They can be reached at (410) 962-3670.

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interests in these resources. If you have any questions or need further assistance, please contact Devin Ray at (410) 573-4531.

Sincerely,

Leopoldo Miranda
Supervisor

United States Department of the Interior
U.S. Fish & Wildlife Service
Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401
410/573 4575

Online Certification Letter

Today's date: 9/30/11

Project: Purple Line Transit Project

Dear Applicant for online certification:

Thank you for choosing to use the U.S. Fish and Wildlife Service Chesapeake Bay Field Office online list request certification resource. This letter confirms that you have reviewed the conditions in which this online service can be used. On our website (www.fws.gov/chesapeakebay) are the USGS topographic map areas where **no** federally proposed or listed endangered or threatened species are known to occur in Maryland, Washington D.C. and Delaware.

You have indicated that your project is located on the following USGS topographic map
Washington East and Kensington
Based on this information and in accordance with section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), we certify that except for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist within the project area. Therefore, no Biological Assessment or further section 7 consultation with the U.S. Fish and Wildlife Service is required. Should project plans change, or if additional information on the distribution of listed or proposed species becomes available, this determination may be reconsidered.

This response relates only to federally protected threatened or endangered species under our jurisdiction. For additional information on threatened or endangered species in Maryland, you should contact the Maryland Wildlife and Heritage Division at (410) 260-8540. For information in Delaware you should contact the Delaware Natural Heritage and Endangered Species Program, at (302) 653-2880. For information in the District of Columbia, you should contact the National Park Service at (202) 535-1739.

The U.S. Fish and Wildlife Service also works with other Federal agencies and states to minimize loss of wetlands, reduce impacts to fish and migratory birds, including bald eagles, and restore habitat for wildlife. Information on these conservation issues and how development projects can avoid affecting these resources can be found on our website (www.fws.gov/chesapeakebay).

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interest in these resources. If you have any questions or need further

assistance, please contact Chesapeake Bay Field Office Threatened and Endangered Species program at (410) 573-4531.

Sincerely,

Leopoldo Miranda
Field Supervisor

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, Maryland 21401
http://www.fws.gov/chesapeakebay

January 7, 2014

Mr. Daniel Koenig
Office of Planning and Environment
U.S. Department of Transportation
Federal Transit Administration
1900 K Street, N.W., Suite 310
Washington, DC 20006

RE: MD Transit Purple Line Project, Montgomery and Prince Georges Counties, MD

Dear Mr. Koenig:

As requested, we are sending you an updated endangered species review of the referenced project, previously commented upon in our letter of October 27, 2011. We are updating our comments in light of additional information provided in the August 2013 Final Environmental Impact Statement for the Purple Line project and information received during our December 16, 2013 meeting with you and representatives of the Maryland Transit Authority and Coastal Resources consulting firm. These comments are provided in accordance with Section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Our previous letter indicated that except for occasional transient individuals, no Federally proposed or listed endangered or threatened species are known to exist within the impact area of the proposed Purple Line Project. Following our discussion with you and the project engineers concerning project construction methods and measures to minimize siltation and other effects of the project, it remains our conclusion that the project will have no effect on the Hay's Spring Amphipod (*Stygobromus hayi*). This species occurs in seeps and springs fed by groundwater coming from small, localized aquifers on the slopes adjacent to Rock Creek within Rock Creek Park in Washington, DC. The nearest (northernmost) spring known to support the species is West Rapids Spring, near Rock Creek approximately 4.5 miles downstream of the Purple Line crossing of Rock Creek. No effect on the groundwater systems supporting the Hay's Spring Amphipod is expected because of the miles separating these systems from the project construction area. We also do not anticipate any adverse effects on this species from changes in the flow or water quality in Rock Creek related to the Purple Line construction.

A second rare amphipod species, Kenk's amphipod (*Stygobromus kenki*), which is a candidate for Federal listing, does occur within a quarter mile of the Purple Line project. While candidate

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species have no legal protection under the Endangered Species Act, we do recommend that measures be taken to protect them, where appropriate. Therefore, we have taken a close look at the potential for this project to affect Kenk's amphipod. This species is known to occur in a spring south of Coquelin Run near Chevy Chase in Montgomery County, Maryland. This spring is approximately 40 vertical feet above the level of Coquelin Run and is fed by a small catchment basin completely separated from the groundwater sources to the north of Coquelin Run, where the Purple line is to be constructed. Therefore, ground and surface water draining from the area where the Purple line is to be constructed is expected to have no effect on this spring site or Kenk's amphipod.

Our recent meeting with you and other involved agencies facilitated a better understanding of the construction materials and methods to be used for this project and the potential impacts to aquatic resources. Should you have any questions regarding this letter, please contact Andy Moser of my Endangered Species Program at (410) 573-4537.

Sincerely,

Genevieve LaRoche
Supervisor

cc: Tim Larney, Maryland Department of Natural Resources, Annapolis, MD
Dan Feller, Maryland Department of Natural Resources, Frostburg, MD
John Newton, Maryland Transit Administration, Baltimore, MD
Bridgette Garner, Coastal Resources, Annapolis, MD

APPENDIX B

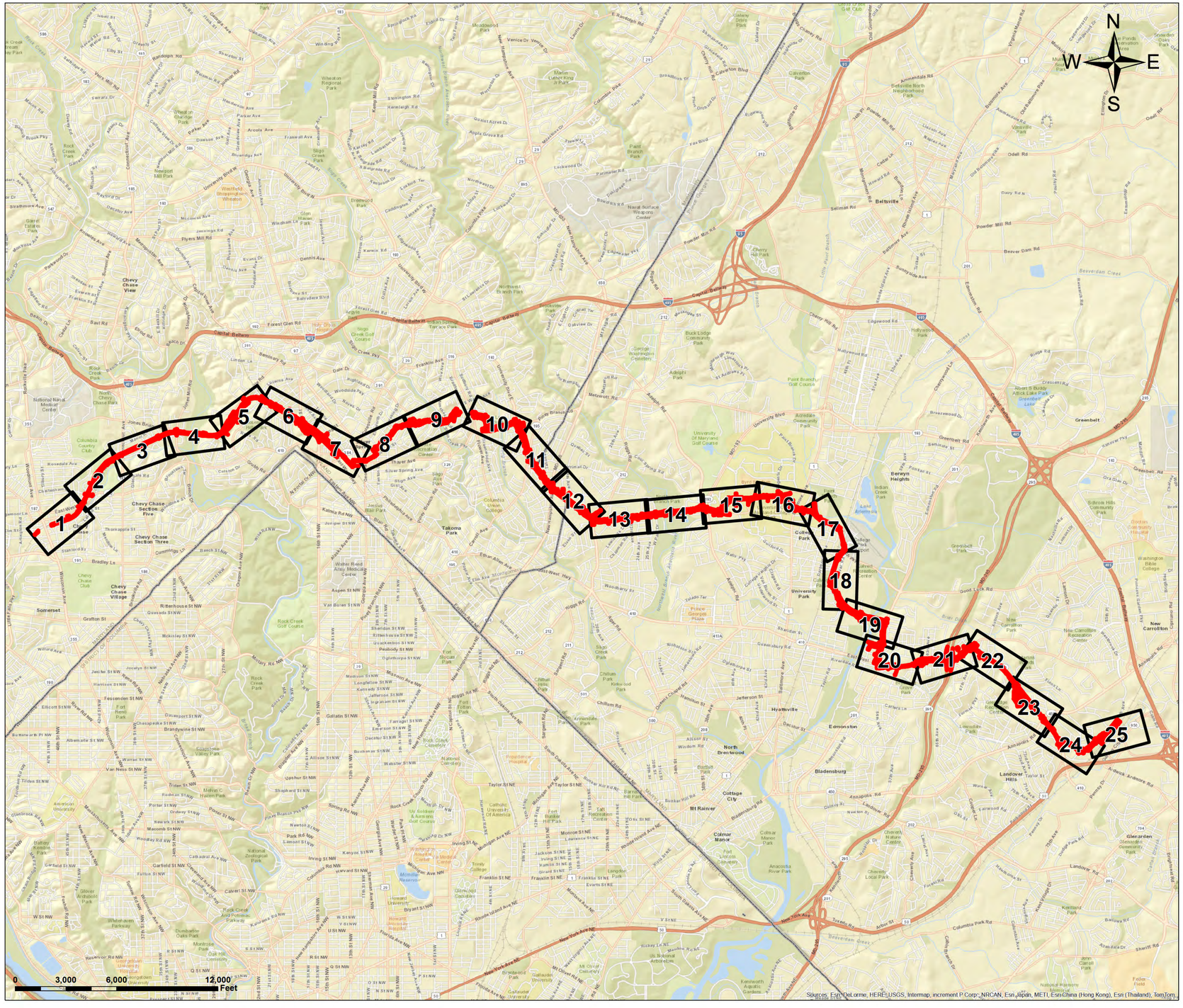
ENVIRONMENTAL FEATURES MAPS

(SEE ADDITIONAL BINDER)

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014



Legend

- MAP SHEETS
- FSD STUDY AREA
- COUNTY BOUNDARY

THIS PLAN WAS PREPARED BY:
BRIDGETTE GARNER
COASTAL RESOURCES, INC.
MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

Bridgette Garner 3/7/2014

BRIDGETTE GARNER DATE
COASTAL RESOURCES, INC.

REVISIONS		
REV.NO.	DATE	DESCRIPTIONS

COMMENTS		
NO.	DATE	DESCRIPTION

COASTAL RESOURCES INC.

Purple Line

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

COVER SHEET

MAP 2

STAND 51

wus gb-1

STREET RETA L INC
ACCT NO: 7 02857646

STREET RETA L INC
ACCT NO: 7 00429715

ACCT NO: 0 C000680

ACCT NO: 0 C000719

ACCT NO: 0 C000084

ACCT NO: 0 C000153

BURKE REED STREET PROPERTIES LLC
ACCT NO: 7 00421500

CHEVY CHASE LAND CO OF MONTG CO MD
ACCT NO: 7 00466112

LOF BETHESDA SUBS DIARY LLC
ACCT NO: 7 02511481

BETHESDA ARC LLC
ACCT NO: 7 02511470

BETHESDA ARC LLC
ACCT NO: 7 00417455

BETHESDA ARC LLC
ACCT NO: 7 02644353

BETHESDA ARC LLC
ACCT NO: 7 00417444

BETHESDA ARC LLC
ACCT NO: 7 01090448

PEARLMONT ASSOCIATES LLC
ACCT NO: 7 00516130

BETHESDA-CHEVY CHASE RACQUET
ACCT NO: 7 00434038

ACCT NO: 0 C000734

BETHESDA ARC LLC
ACCT NO: 7 00515922

BETH CH CH ASSOC RACQUET CLUB LP
ACCT NO: 7 02416213

4330MONTGOMERY AVENUE
ACCT NO: 7 00435261

MARYLAND NATIONAL CAPITOL
ACCT NO: 7 02381911

GRIFFITH, DIANE L
ACCT NO: 7 00470652

MONTGOMERY COUNTY MARYLAND
ACCT NO: 7 03352392

WANG, SEROUN M M
ACCT NO: 7 00469961

KLEIN, ROBERT J ET AL
ACCT NO: 7 00471053

PRAKASH, ANJALI P
ACCT NO: 7 00470184

GRIFFIN, JON H ET AL
ACCT NO: 7 00470936

STANISH, JULIE A
ACCT NO: 7 00471235

DWYER, FRANCIS X ET AL TR
ACCT NO: 7 00666030

GAARDER, KENNETH R & M S
ACCT NO: 7 00666121

DWYER, WALTER W ET AL TR
ACCT NO: 7 00666028

SERRA-JOSE M & M E C
ACCT NO: 7 00566764

ACCT NO: 0 C 313029

ACCT NO: 0 C000362

PASKO, V NCENT J & MELISSA A
ACCT NO: 7 00566500

BRAUN, SCOTT L & J A
ACCT NO: 7 00566987

LANDA, VICTOR & L K D
ACCT NO: 7 00566910

KEPPLER, JOHN K & DIANNE M
ACCT NO: 7 02839632

JACOBSON, BOYANNA T
ACCT NO: 7 00567481

SERA, NANCY M
ACCT NO: 7 00666017

2UB

2UC

7UB

400

HAGER LA

ELM ST

EAST LA

MONTGOMERY LA

HAMPDEN LA

MONTGOMERY AVE

WAVERLY ST

PEARL ST

EAST WEST HWY

CHELTON RD

LYNBROOK DR

KENTBURY DR

REED ST

BETHESDA AVE

MOONLIGHT AVE

MILLER AVE

WISCONSIN AVE

47TH ST

ELM ST

LELAND ST

WELLINGTON DR

STRATHMORE ST

ALLEY

WALSH ST

WILLOW LA

45TH ST

44TH ST

OAKRIDGE LA

OAKRIDGE AVE

LYNN DR

TARRYTOWN RD

MAPLE AVE

PINE ST

THIS PLAN WAS PREPARED BY:
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MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

3/7/2014

BRIDGETTE GARNER
COASTAL RESOURCES, INC.

DATE

SCALE:

1 Inch = 100 Feet

0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
- PROPERTY BOUNDARY
- 150 EXISTING CONTOUR
- ROADWAY
- FOREST STAND
- SPECIMEN TREE
- SAMPLE PLOT
- INTERMITTENT/PERENNIAL STREAM
- EPHEMERAL CHANNEL
- DELINEATED WETLAND
- 25-FT WETLAND BUFFER
- 50-FT STREAM BUFFER
- OPEN WATER
- 15% SLOPES (ON ERODIBLE SOIL)
- 25% SLOPES
- SOIL TYPE BOUNDARY
- 100-YEAR FLOODPLAIN

VICINITY MAP
1 in = 2 miles

NORTH CHEVY CHASE
CHEVY CHASE VILLAGE
BERWYN HEIGHTS
UNIVERSITY PARK
NEW CARROLLTON
RIVERDALE
MERSET
EDMONSTON
LANDOVER HILLS

Purple Line

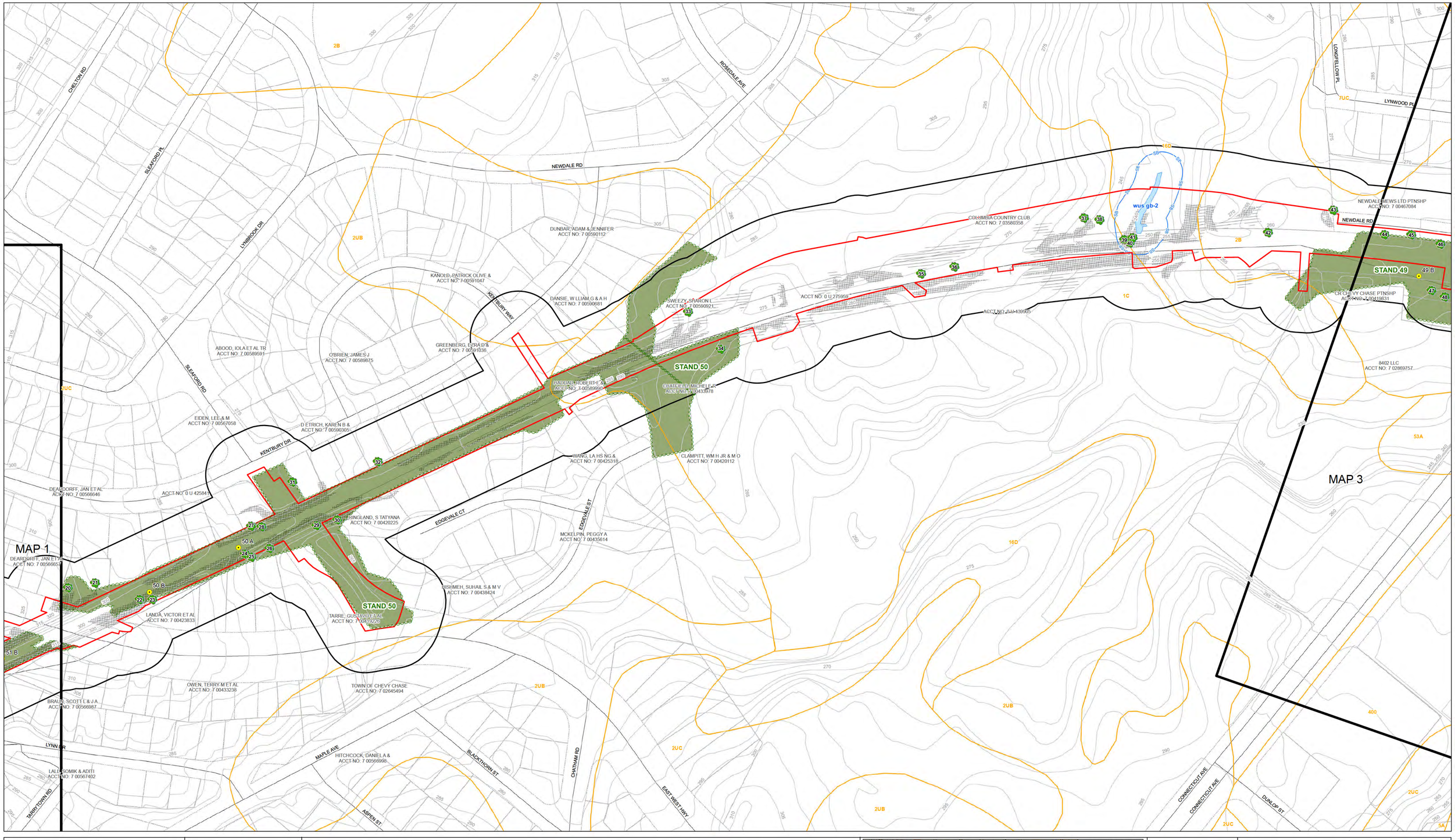
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 1 of 25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SLEAFORD PL
LYNBROOK DR
SLEAFORD RD
KENTBURY DR
KENTBURY WAY
ROSEDALE AVE
LONGFELLOW PL
LYNWOOD PL
EDGEVALE CT
EDGEVALE ST
MAPLE AVE
BLACKTHORN ST
CHATHAM RD
EAST WEST HWY
CONNECTICUT AVE
DUNLOP ST
TARRYTOWN RD
LYNN DR
ASPEN ST
DUNBAR, ADAM & JENNIFER ACCT NO: 7 00590112
KANOED, PATRICK OLIVE & ACCT NO: 7-00591047
DANSIE, W LLIAM G & A H ACCT NO: 7 00590681
SWEEZY, SHARON L ACCT NO: 7 00590921
GREENBERG, EZRA D & ACCT NO: 7 00591036
ABOOD, IOLA ET AL TR ACCT NO: 7 00589691
O'BRIEN, JAMES J ACCT NO: 7 00589875
HADDAD, ROBERT F & ACCT NO: 7-00589990
CIATTI, EG, MICHELE R ACCT NO: 7 00443978
EIDEN, LEE & M ACCT NO: 7 00567058
D ETRICH, KAREN B & ACCT NO: 7 00590305
WANG, LA HS NG & ACCT NO: 7 00425318
CLAMPITT, WM H JR & M O ACCT NO: 7 00420112
DEARDORFF, JAN ET AL ACCT NO: 7 00569646
ACCT NO: 0 U 425841
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MCKELPIN, PEGGY A ACCT NO: 7 00435614
MAP 1
DEARDORFF, JAN ET AL ACCT NO: 7 00566657
LANDA, VICTOR ET AL ACCT NO: 7 00423833
TARRE, GUSTAVO ET AL ACCT NO: 7 00611226
ISHMEH, SUHAIL S & M V ACCT NO: 7 00438424
OWEN, TERRY M ET AL ACCT NO: 7 00433238
TOWN OF CHEVY CHASE ACCT NO: 7 02645494
BRAUN, SCOTT L & J A ACCT NO: 7 00566987
LALL, SOMIK & ADITI ACCT NO: 7 00567402
HITCHCOCK, DANIEL A & ACCT NO: 7 00566998
COLUMBIA COUNTRY CLUB ACCT NO: 7 03580358
ACCT NO: 0 U 275966
ACCT NO: 0 U 439905
NEWDALE MEWS LTD PTNSHP ACCT NO: 7 00467084
CR CHEVY CHASE PTNSHP ACCT NO: 7 00419831
8402 LLC ACCT NO: 7 02669757
wus gb-2
STAND 49
49 B
STAND 50
50 A
50 B
MAP 3
2B
2UB
2UC
1C
16D
7UC
53A
5A

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MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

3/7/2014

BRIDGETTE GARNER — DATE
COASTAL RESOURCES, INC.

SCALE:

1 Inch = 100 Feet

0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
- PROPERTY BOUNDARY
- EXISTING CONTOUR
- ROADWAY
- FOREST STAND
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- SAMPLE PLOT
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Purple Line

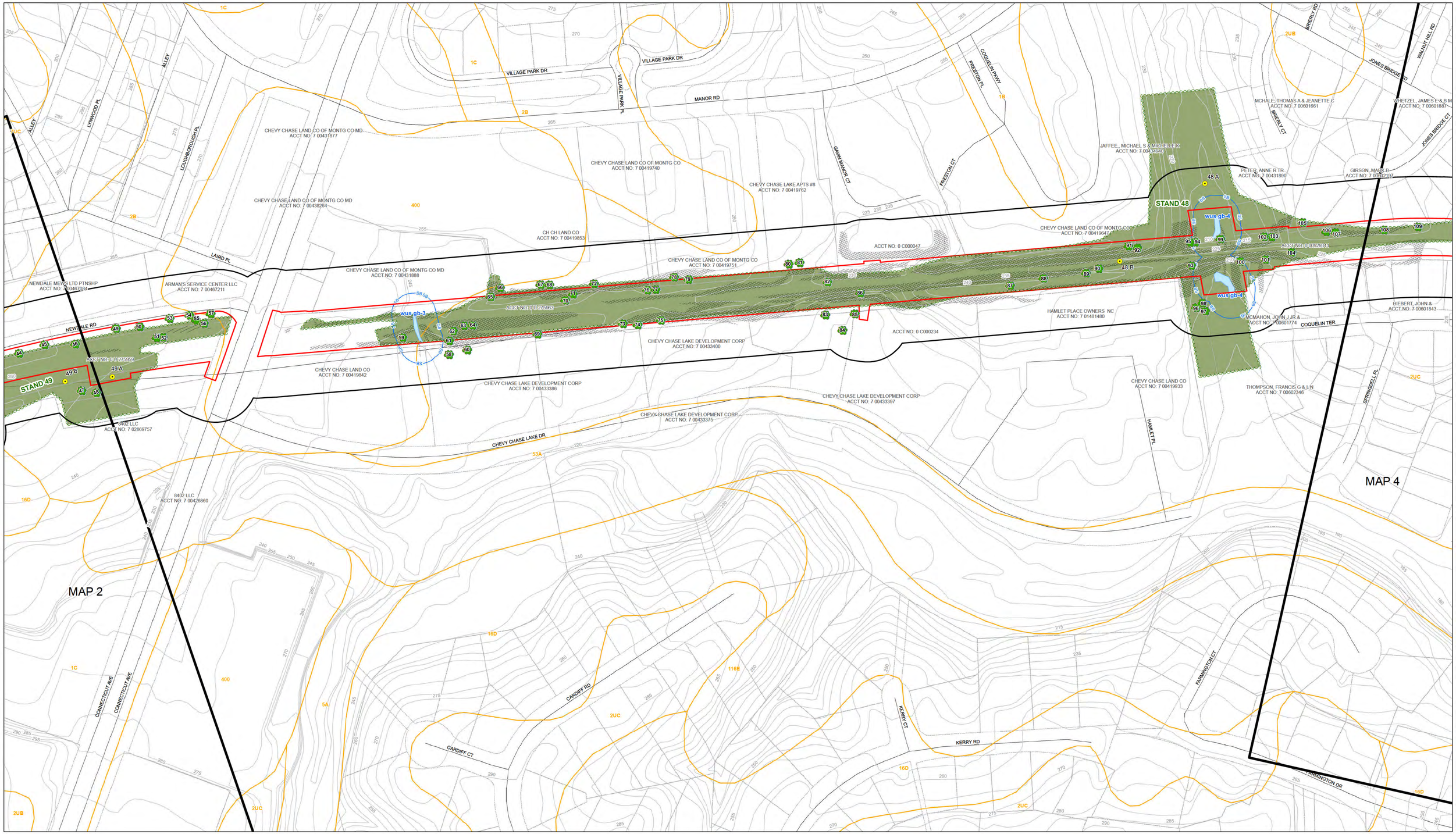
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 2 of 25


STAND 48
STAND 49
wus gb-3
wus gb-4
wus gb-4
48 A
48 B
49 A
49 B
MAP 4
MAP 2
1C
2B
2UC
2UB
1B
16D
5A
53A
116E
400
VILLAGE PARK DR
MANOR RD
LAIRD PL
NEWDALE RD
CHEVY CHASE LAKE DR
CARDIFF RD
CARDIFF CT
KERRY RD
KERRY CT
PRESTON PL
COQUELIN PKWY
GAVIN MANOR CT
BRIERLY CT
BRIERLY RD
JONES BRIDGE RD
JONES BRIDGE CT
WALNUT HILL RD
COQUELIN TER
HAMLET PL
SPRINGHILL PL
FARMINGTON CT
FARMINGTON DR
CONNECTICUT AVE
LYNWOOD PL
LOUGHBOROUGH PL
ALLEY
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CHEVY CHASE LAND CO OF MONTG CO ACCT NO: 7 00419740
CHEVY CHASE LAKE APTS #8 ACCT NO: 7 00419762
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CH CH LAND CO ACCT NO: 7 00419853
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CHEVY CHASE LAND CO OF MONTG CO ACCT NO: 7 00419751
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ACCT NO: 0 01275959
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PETER, ANNE R TR ACCT NO: 7 00431890
GIRSON, MARC B ACCT NO: 7 00602187
MCHALE, THOMAS A & JEANETTE C ACCT NO: 7 00601661
PRETZEL, JAMES E & B M ACCT NO: 7 00601887
HIEBERT, JOHN & ACCT NO: 7 00601843
MCMAHON, JOHN J JR & ACCT NO: 7 00601774
THOMPSON, FRANCIS G & L N ACCT NO: 7 00602346
NEWDALE MEWS LTD PTNSHP ACCT NO: 7 00467084
ARMANS SERVICE CENTER LLC ACCT NO: 7 00467211
8402 LLC ACCT NO: 7 02869757
8402 LLC ACCT NO: 7 00426860

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3/7/2014

BRIDGETTE GARNER
COASTAL RESOURCES, INC.

DATE

SCALE:

1 Inch = 100 Feet

0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
- PROPERTY BOUNDARY
- 150 EXISTING CONTOUR
- ROADWAY
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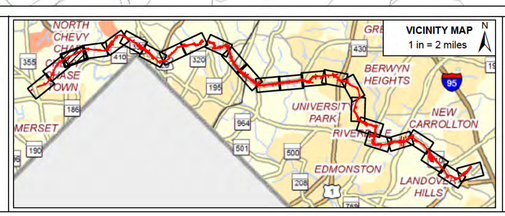


Purple Line

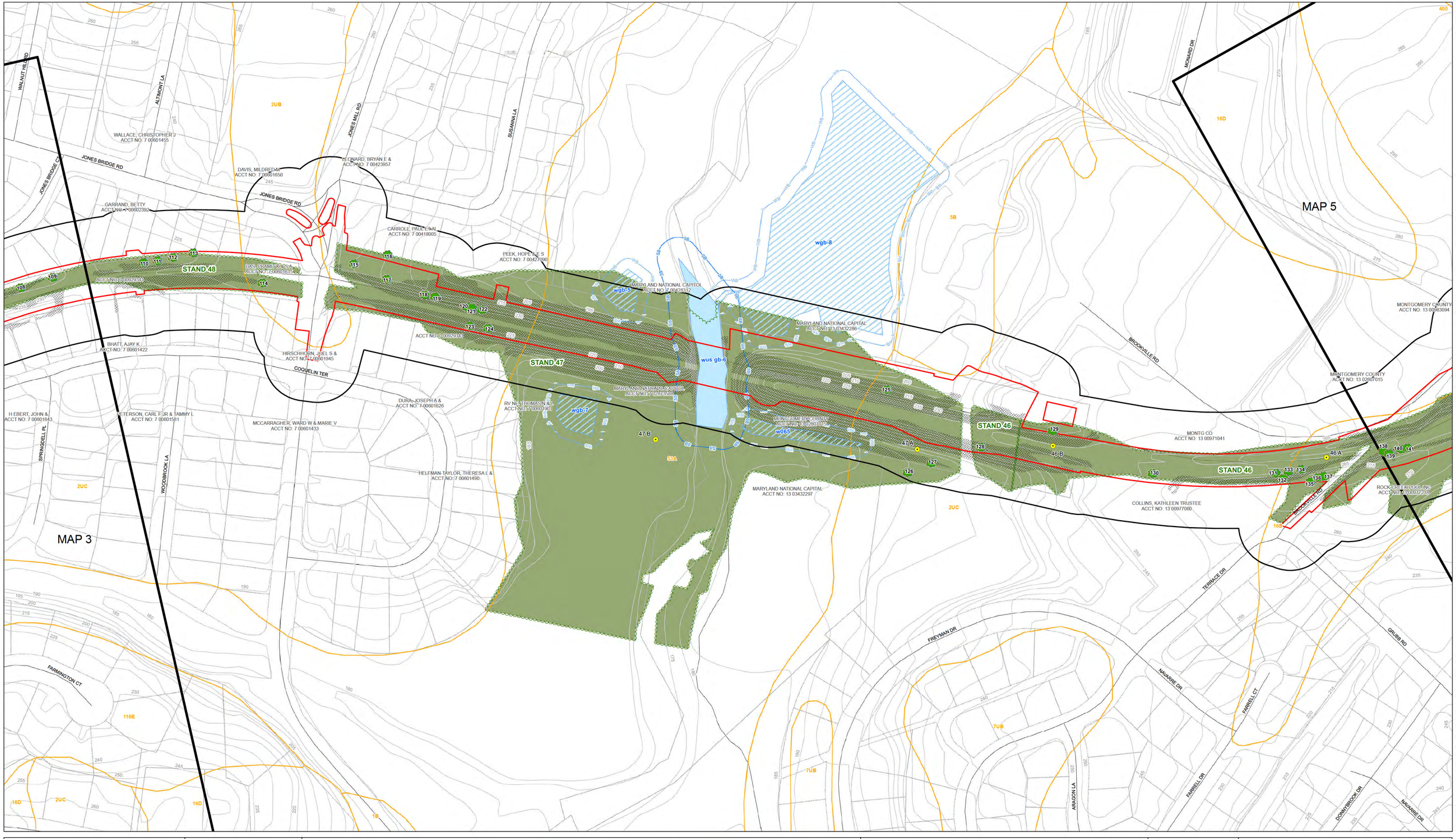
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 3 of 25



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MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

3/7/2014

BRIDGETTE GARNER — DATE
COASTAL RESOURCES, INC.

N W E S

SCALE:

1 Inch = 100 Feet

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Purple Line

COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 4 of 25

MAP 4

MAP 6

PITTMAN DR
GARFIELD AVE
STEPHEN SITTER AVE
BROOKVILLE RD
STEWART AVE
PERKINS PL
TALBOT AVE
LYTTONSVILLE PL
ALBERT STEWART LA
KANSAS AVE
MAINE AVE
MICHIGAN AVE
YOUNG AMERICAN CT
PENNSYLVANIA AVE
LYTTONSVILLE RD
ROSS RD
LANIER DR
PORTER RD
SUNDALE DR

STAND 44
STAND 45
STAND 46
STAND 42
STAND 41

ZANOFF FAMILY LLC
ACCT NO: 13 00975265
LOPEZ, ISRAEL & L M
ACCT NO: 13 02800630
DIGREGORIO PERK NS PLACE LLC
ACCT NO: 13 01408753
GRAY, ROBERT L JR & JACQUELYN A
ACCT NO: 13 01994652
FANGMEYER, ROBERT A ET AL TR
ACCT NO: 13 00956080
ACCT NO: 0
GARFIELD PROPERT ES LLC ET AL
ACCT NO: 13 00965814
CSX TRANSPORTATION INC
ACCT NO: 13 00970547
TALBOT PROPERT ES LLC
ACCT NO: 13 01408547
MONTGOMERY COUNTY
ACCT NO: 13 02807015
ZANOFF FAM LY LLC
ACCT NO: 13 00985140
FREMONT ONE ASSOC LLC
ACCT NO: 13 00981142
MONTGOMERY COUNTY
ACCT NO: 13 00972728
SERRA, JOSE M F & M E C
ACCT NO: 13 00967356
DIGREGORIO STEWART AVE LLC
ACCT NO: 13 02856323
TALBOT PROPERTIES LLC
ACCT NO: 13 01408558
KOSTER, MARINUS ET AL
ACCT NO: 13 00975210
CAMPANARO, DOMENICO
ACCT NO: 13 00975298
KOSTER, MARINUS ET AL
ACCT NO: 13 00975243
CHANCELLOR MEDIA CORP OF
ACCT NO: 13 00952366
VO, THANH V & C T
ACCT NO: 13 01409495
LRS GROUP LLC
ACCT NO: 13 01780568
LRS GROUP LLC
ACCT NO: 13 01409746
LRS GROUP LLC
ACCT NO: 13 01409393
FREMONT ONE ASSOC LLC
ACCT NO: 13 02828267
CAMPANARO, DOMENICO & R
ACCT NO: 13 00957346
CHALBERT STEWART LANE LLC
ACCT NO: 13 00974356
MONTGOMERY COUNTY
ACCT NO: 13 02742008
MONTGOMERY COUNTY
ACCT NO: 13 00983099
GRENIDGE, VINICIO & M J ET AL
ACCT NO: 13 01409507
MONTG CO
ACCT NO: 13 00971041
CAMPANARO, DOMENICO & R
ACCT NO: 13 02742050
C & S MPTS ASSOC LTD PTNSHP
ACCT NO: 13 00956524
CSX TRANSPORTATION INC
ACCT NO: 13 01409096
WASHINGTON SUBURBAN
ACCT NO: 13 00983083
KEHOE LANDSCAPING INC
ACCT NO: 13 03058985
RUIZ, ARIEL & MARTHA CHINCHILLA
ACCT NO: 13 01408640
MONTGOMERY COUNTY
ACCT NO: 13 02807013
MARYLAND TRANSIT ADMINISTRATION
ACCT NO: 13 00952250
WASHINGTON SUBURBAN
ACCT NO: 13 00983072
RAFLER, ROGER D
ACCT NO: 13 01409336
ROCK CREEK POOL INC
ACCT NO: 13 00977216
BOARD OF EDUCATION
ACCT NO: 13 00954208
BOARD OF EDUCATION
ACCT NO: 13 01147248

wus068

16D
2UC
2UB
67UB
400

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COASTAL RESOURCES, INC.
MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

3/7/2014

BRIDGETTE GARNER — DATE
COASTAL RESOURCES, INC.

SCALE:

1 Inch = 100 Feet

0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
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VICINITY MAP
1 in = 2 miles

Purple Line

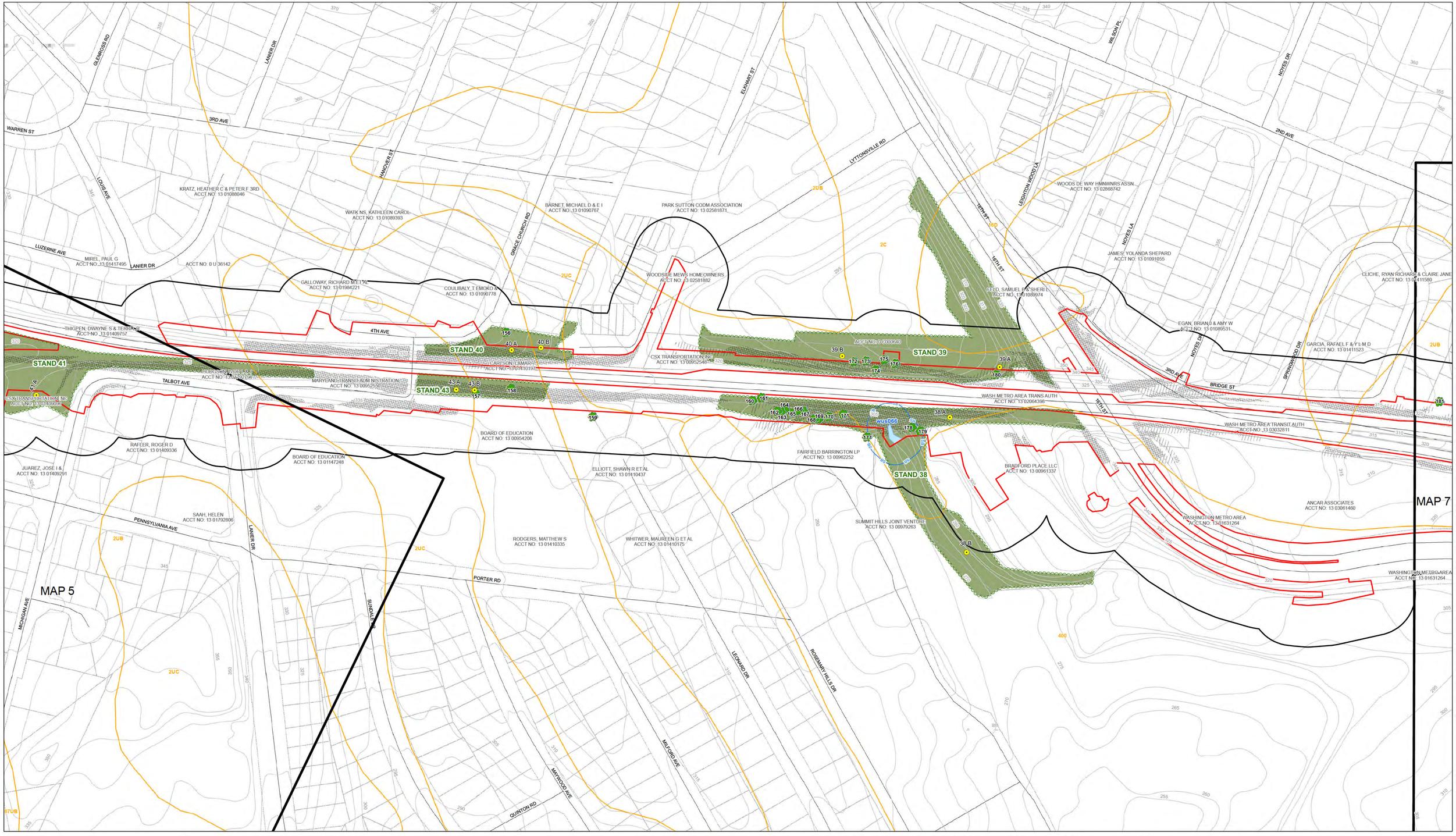
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 5 of 25



THIS PLAN WAS PREPARED BY:
BRIDGETTE GARNER
COASTAL RESOURCES, INC.
MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

3/7/2014

BRIDGETTE GARNER — DATE
COASTAL RESOURCES, INC.

SCALE:

1 Inch = 100 Feet

0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
- PROPERTY BOUNDARY
- EXISTING CONTOUR
- ROADWAY
- FOREST STAND
- SPECIMEN TREE
- SAMPLE PLOT
- INTERMITTENT/PERENNIAL STREAM
- EPHEMERAL CHANNEL
- DELINEATED WETLAND
- 25-FT WETLAND BUFFER
- 50-FT STREAM BUFFER
- OPEN WATER
- 15% SLOPES (ON ERODIBLE SOIL)
- 25% SLOPES
- SOIL TYPE BOUNDARY
- 100-YEAR FLOODPLAIN

Purple Line

COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 6 of 25

MAP 6

MAP 8

STAND 36

STAND 37

wus gb-9

2C

2UB

67UB

1ST AVE

2ND AVE

SPRINGWOOD DR

BALLARD ST

SPRING ST

SPRING ST RAMP

FENWICK LA

CAMERON ST

FIDLER LA

RAMSEY AVE

SECOND AVE

APPLE AVE

HIGH ST

ALLEY

GEORGIA AVE

ELLSWORTH DR

WAYNE AVE

DISCOVERY PL

DIXON AVE

BONIFANT ST

RIPLEY ST

FALKLAND LA

FORESTVILLE RD

16TH ST

DRUMMER LA

CAREY LA

NO NAME

EAST WEST HWY

CLICHE, RYAN RICHARD & CLA RE JANE
ACCT NO: 13 01411580

WASHINGTON METRO AREA
ACCT NO: 13 01734846

NELSON, GERALD C TRUSTEE
ACCT NO: 13 01090142

EASTER SEALS GREATER WASH NGTON
ACCT NO: 13 03552167

OVERTON HOMES INC
ACCT NO: 13 01091886

SMEDLEY, WEBB A K C
ACCT NO: 13 01091875

WASHINGTON METRO AREA
ACCT NO: 13 01631263

WASH METRO AREA TRANSIT AUTH
ACCT NO: 13 03032611

ANCAR ASSOCIATES
ACCT NO: 13 03061460

ANCAR ASSOCIATES
ACCT NO: 13 03061471

UNITED STATE POSTAL SERV
ACCT NO: 13 01089017

STATE OF MARYLAND
ACCT NO: 13 01040147

LDG INC
ACCT NO: 13 01041040

WASH METRO AREA TRANSIT AUTH
ACCT NO: 13 02038878

STATE OF MARYLAND
ACCT NO: 13 01041461

SUMMIT BUILDING LLC
ACCT NO: 13 00952880

WASH METRO AREA TRANSIT AUTH
ACCT NO: 13 03032811

SILVER SPRING METRO PLA LTD PTNSHP
ACCT NO: 13 02543624

WASH METRO AREA TRANSIT AUTH
ACCT NO: 13 01564404

FALKLAND PARTNERS LLC
ACCT NO: 13 00958802

ACCT NO: 0 U 269177

MARYLAND TRANSIT ADM NISTRATION
ACCT NO: 13 01039057

WASHINGTON METRO AREA TRAN AUTH
ACCT NO: 13 01631242

WASH METRO AREA TRANS AUTHOR
ACCT NO: 13 01859070

WASH METRO AREA TRANSIT AUTH
ACCT NO: 13 03032811

GREENBERG & BEDERMAN SILVER
ACCT NO: 13 01046190

JEMAL POST OFFICE LTD PTNSHP
ACCT NO: 13 01047194

ACCT NO: 0 01047571

1010 STATION SQUARE CORP
ACCT NO: 13 02621237

MONTGOMERY COUNTY
ACCT NO: 13 01043813

MONTGOMERY COUNTY
ACCT NO: 13 01044008

MONTGOMERY COUNTY
ACCT NO: 13 01045696

MONTGOMERY COUNTY
ACCT NO: 13 01043367

MONTGOMERY COUNTY
ACCT NO: 13 01044998

MONTGOMERY COUNTY
ACCT NO: 13 01046100

MARYLAND TRANSIT ADMINISTRATION
ACCT NO: 13 03378747

WASHINGTON METRO AREA
ACCT NO: 13 01670447

HOME PROPERTIES RI PEWSTREET LLC
ACCT NO: 13 01041528

DELLENOCI, ROSA L ET AL
ACCT NO: 13 02566751

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3/7/2014

BRIDGETTE GARNER
COASTAL RESOURCES, INC.

DATE

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- 25% SLOPES
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VICINITY MAP
1 in = 2 miles

NORTH CHEVY CHASE
CHEVY CHASE VIEW
MERSET
BERWYN HEIGHTS
UNIVERSITY PARK
RIVERDALE
EDMONSTON
NEW CARROLLTON
LANDOVER HILLS

Purple Line

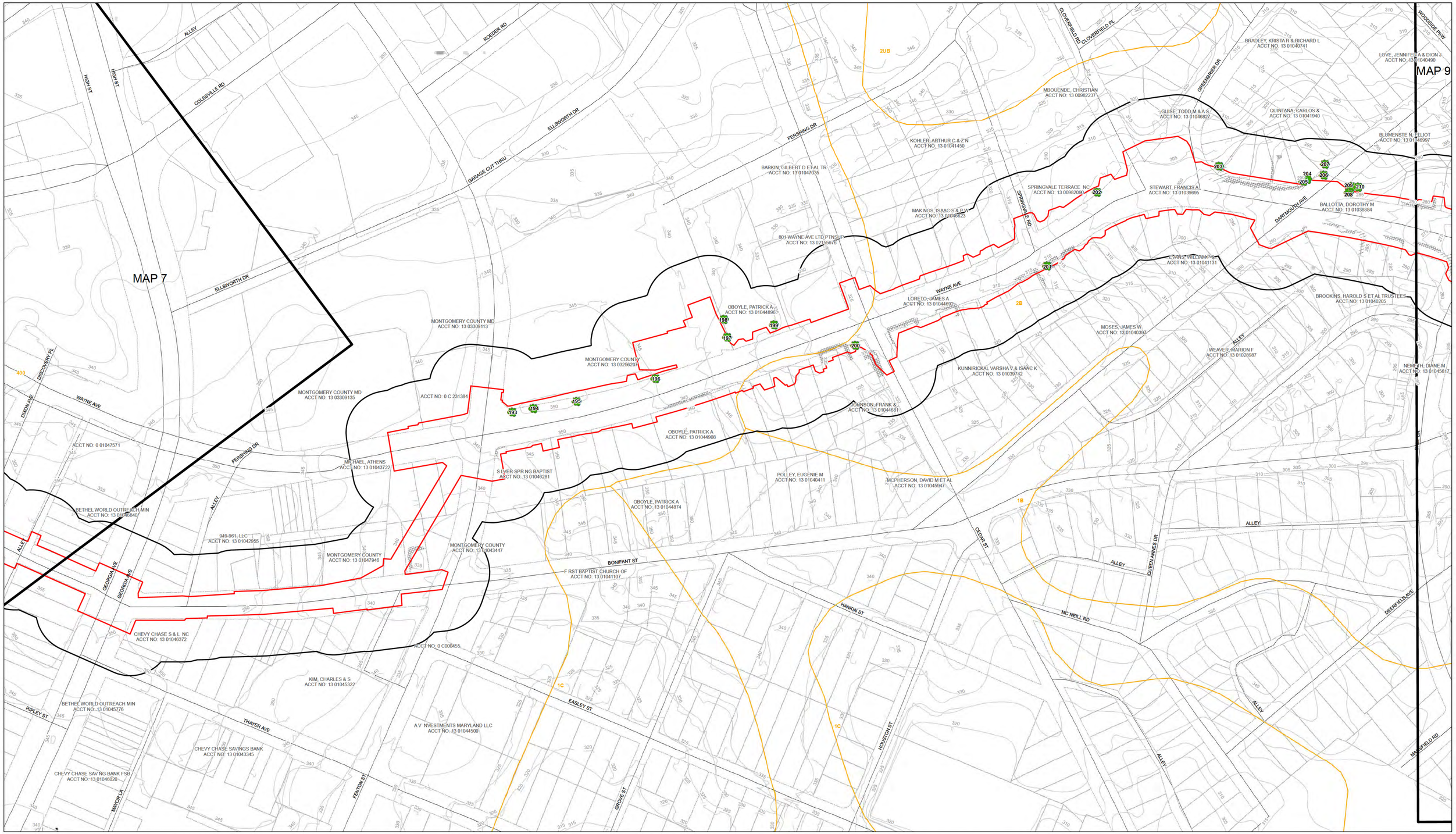
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 7 of 25


MAP 7
MAP 9
ALLEY
HIGH ST
COLESVILLE RD
ROEDER RD
ELLSWORTH DR
GARAGE CUT THRU
PERSHING DR
DISCOVERY PL
DIXON AVE
WAYNE AVE
GEORGIA AVE
BONIFANT ST
EASLEY ST
RIPLEY ST
THAYER AVE
FENTON ST
MAYOR LA
GROVE ST
HANKIN ST
CEDAR ST
HOUSTON ST
MC NEILL RD
QUEEN ANNES DR
DEERFIELD AVE
MANSFIELD RD
SPRINGVALE RD
DARTMOUTH AVE
GREENBRIER DR
CLOVERFIELD RD
CLOVERFIELD PL
WOODSIDE PKW
2UB
2B
1B
1C
BETHEL WORLD OUTREACH MIN ACCT NO: 13 01046840
949-961, LLC ACCT NO: 13 01042955
MONTGOMERY COUNTY ACCT NO: 13 01047946
MONTGOMERY COUNTY ACCT NO: 13 01043447
CHEVY CHASE S & L NC ACCT NO: 13 01046372
ACCT NO: 0 C000455
KIM, CHARLES & S ACCT NO: 13 01045322
BETHEL WORLD OUTREACH MIN ACCT NO: 13 01045776
A V INVESTMENTS MARYLAND LLC ACCT NO: 13 01044500
CHEVY CHASE SAVINGS BANK ACCT NO: 13 01043345
CHEVY CHASE SAV NG BANK FSB ACCT NO: 13 01046020
ACCT NO: 0 01047571
MICHAEL, ATHENS ACCT NO: 13 01043722
MONTGOMERY COUNTY MD ACCT NO: 13 03309135
MONTGOMERY COUNTY MD ACCT NO: 13 03309113
ACCT NO: 0 C 231384
MONTGOMERY COUNTY ACCT NO: 13 03256207
S LVER SPR NG BAPTIST ACCT NO: 13 01046281
OBOYLE, PATRICK A ACCT NO: 13 01044908
OBOYLE, PATRICK A ACCT NO: 13 01044874
POLLEY, EUGENIE M ACCT NO: 13 01040411
MCPHERSON, DAVID M ET AL ACCT NO: 13 01045947
F RST BAPTIST CHURCH OF ACCT NO: 13 01041107
JOHNSON, FRANK & ACCT NO: 13 01044681
KUNNIRICKAL VARSHA V & ISAAC K ACCT NO: 13 01039742
LORETO, JAMES A ACCT NO: 13 01044692
OBOYLE, PATRICK A ACCT NO: 13 01044896
801-WAYNE AVE LTD PTNSHP ACCT NO: 13 02155678
MAK NGS, ISAAC S & P W ACCT NO: 13 01046623
BARKIN, GILBERT D ET AL TR ACCT NO: 13 01047035
KOHLER, ARTHUR C & Z N ACCT NO: 13 01041450
MBOUENDE, CHRISTIAN ACCT NO: 13 00982237
SPRINGVALE TERRACE NC ACCT NO: 13 00982090
BRADLEY, KRISTA R & RICHARD L ACCT NO: 13 01040741
LOVE, JENNIFER A & DION J ACCT NO: 13 01040490
GUISE, TODD M & A S ACCT NO: 13 01046827
QUINTANA, CARLOS & ACCT NO: 13 01041940
BLUMENSTE N, ELLIOT ACCT NO: 13 01046997
STEWART, FRANCIS A ACCT NO: 13 01039695
BALLOTTA, DOROTHY M ACCT NO: 13 01038884
EVANS, WILLIAM P JR ACCT NO: 13 01041131
BROOKINS, HAROLD S ET AL TRUSTEES ACCT NO: 13 01040205
MOSES, JAMES W ACCT NO: 13 01040397
WEAVER, MARION F ACCT NO: 13 01028987
NEMOTH, DIANE M ACCT NO: 13 01045617
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0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
- PROPERTY BOUNDARY
- 150 EXISTING CONTOUR
- ROADWAY
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- 25% SLOPES
- SOIL TYPE BOUNDARY
- 100-YEAR FLOODPLAIN

Purple Line

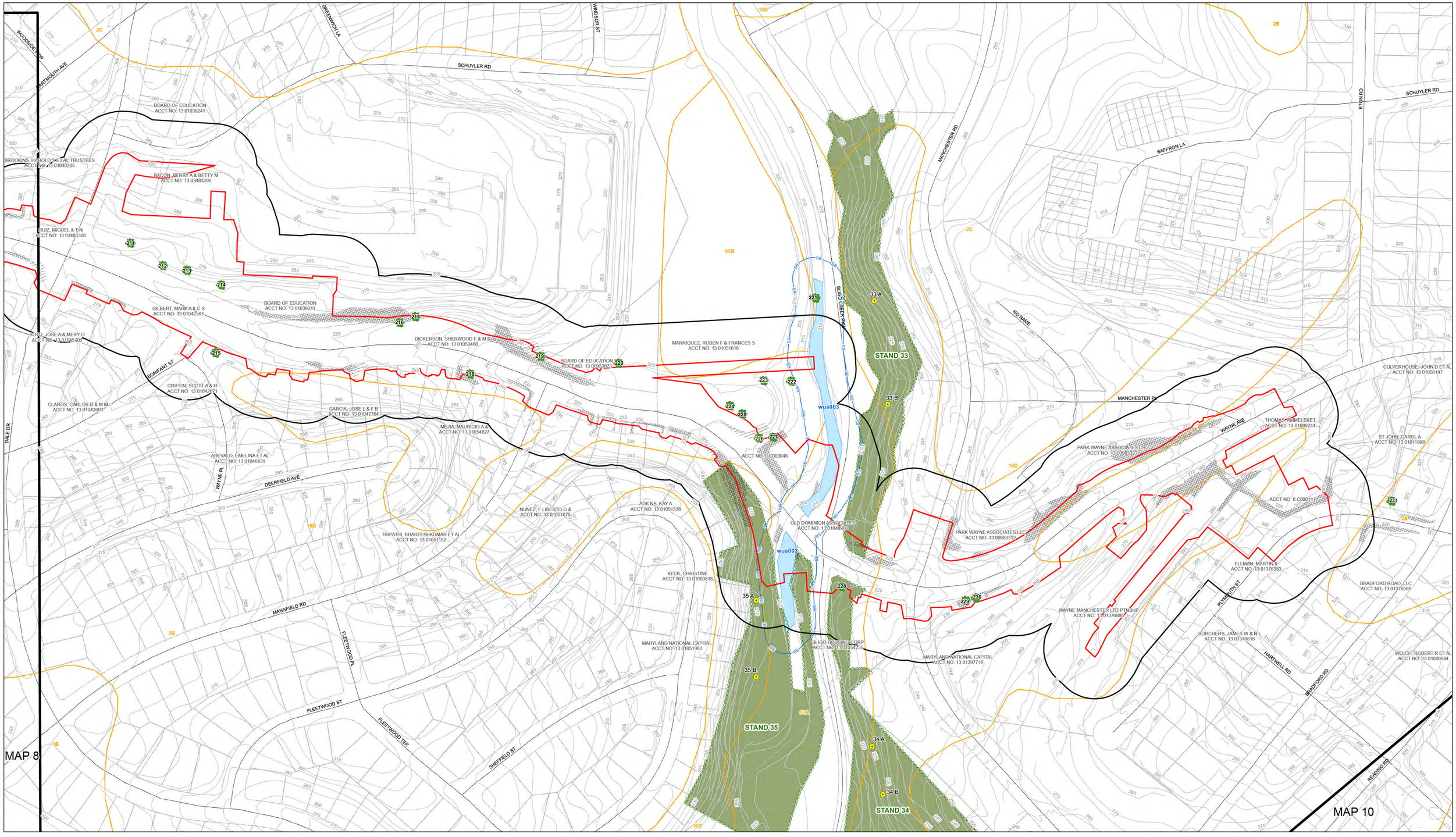
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 8 of 25


WOODSIDE LN
DARTMOUTH AVE
GREENWICH LA
WINDSOR ST
SCHUYLER RD
ETON RD
SAFFRON LA
MANCHESTER RD
NO NAME
MANCHESTER PL
WAYNE AVE
PLYMOUTH ST
HARTWELL RD
BRADFORD RD
READING RD
DALE DR
BONIFANT ST
DEERFIELD AVE
WAYNE PL
MANSFIELD RD
FLEETWOOD PL
FLEETWOOD ST
FLEETWOOD TER
SHEFFIELD ST
SLIGO GREEN WAY
BOARD OF EDUCATION ACCT NO: 13 01039241
BROOKINS, HAROLD SR ET AL TRUSTEES ACCT NO: 13 01040205
BACON, BERRY A & BETTY M ACCT NO: 13 03483296
QUIZ, MIGUEL & T/N ACCT NO: 13 03483308
GILBERT, MARK A & C S ACCT NO: 13 01042567
SOTO, JOSE A & MERY O ACCT NO: 13 01045708
GRIFFIN, SCOTT A & II ACCT NO: 13 01042671
CLAROS, CARLOS D & M M ACCT NO: 13 01042603
GARCIA, JOSE L & F B ACCT NO: 13 01047764
MEJIA, MAURICIO A & ACCT NO: 13 01054827
AREVALO, EMELINA ET AL ACCT NO: 13 01046931
DICKERSON, SHERWOOD F & M R ACCT NO: 13 01053468
BOARD OF EDUCATION ACCT NO: 13 00953827
MANRIQUEZ, RUBEN F & FRANCES S ACCT NO: 13 01051618
ACCT NO: 13 C000046
OLD DOMINION ASSOCIATES ACCT NO: 13 01048563
ADK NS, KAY A ACCT NO: 13 01051538
NUNEZ, F LIBERTO G & ACCT NO: 13 01051675
TRIPATHI, BHARTESHKUMAR ET AL ACCT NO: 13 01051152
KECK, CHRISTINE ACCT NO: 13 01050818
MARYLAND NATIONAL CAPITAL ACCT NO: 13 01051983
SLIGO HOUSING CORP ACCT NO: 13 01054235
MARYLAND NATIONAL CAPITAL ACCT NO: 13 01397716
PARK WAYNE ASSOCIATES LLC ACCT NO: 13 00983323
PARK WAYNE ASSOCIATES LLC ACCT NO: 13 00983312
ACCT NO: 0 C00014
WAYNE MANCHESTER LTD P'SHIP ACCT NO: 13 01376895
ELLMAN, MARTIN & ACCT NO: 13 01376383
BORCHERS, JAMES W & N L ACCT NO: 13 01376816
BRADFORD ROAD, LLC ACCT NO: 13 01376565
WELCH, ROBERT R ET AL ACCT NO: 13 01006084
CULVERHOUSE, JOHN D ET AL ACCT NO: 13 01008147
THOMAS, AMMELEKET ACCT NO: 13 01009244
ST JOHN, CAROL A ACCT NO: 13 01011998
STAND 33
STAND 35
STAND 34
33 A
33 B
35 A
35 B
34 A
34 B
wus003
MAP 8
MAP 10

THIS PLAN WAS PREPARED BY:
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3/7/2014
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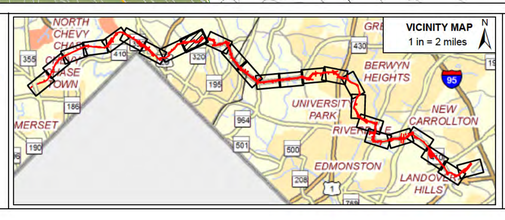


Purple Line

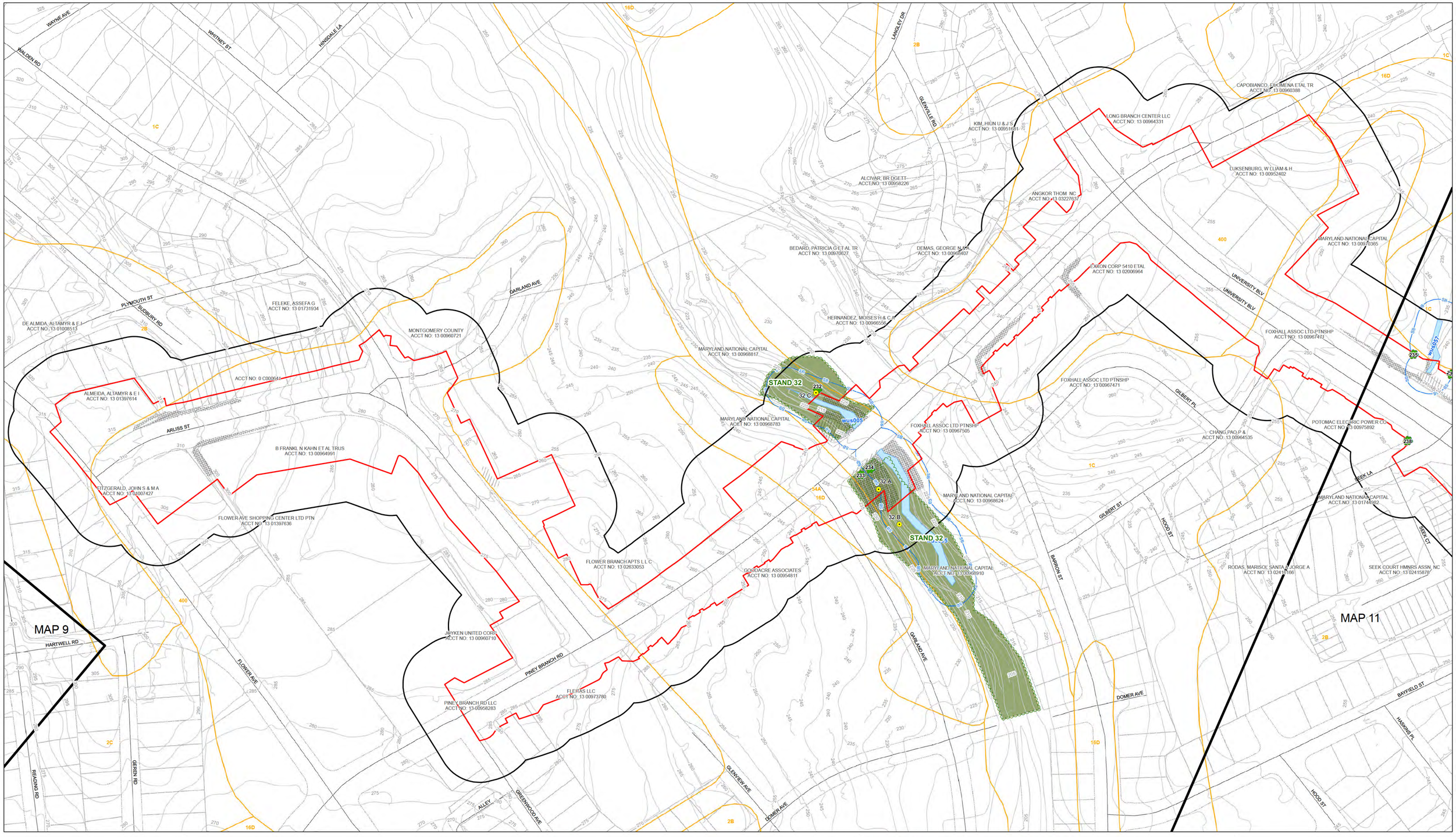
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 9 of 25



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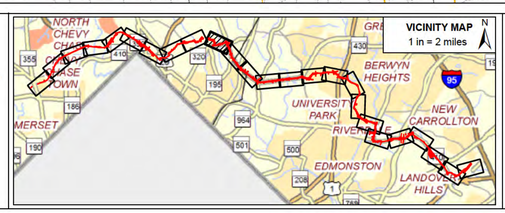

Purple Line

COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 10 of 25

MAP 10

MAP 12

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VICINITY MAP
1 in = 2 miles

Purple Line

COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 11 of 25

MAP 11

MAP 13

NO NAME
LANGLEY WY
EDWARDS PL
14TH AV
KANAWHA ST
NEW HAMPSHIRE AV
NEW HAMPSHIRE AVE
NEW HAMPSHIRE AVE SERV RD
KENNEWICK AVE
KIRKWYNN AVE
HAMMOND AVE
ALLEY #4
UNIVERSITY BLV
UNIVERSITY BL
SERVICE RD
HOLTON LA
15TH AVE
15TH AV
NEW RIGGS RD
JASMINE TE
RIGGS RD
HANNON ST
ELSON ST
17TH AV.
16TH PL

CbD
CbB
CdD
CcD
WuB
Un
RuB
UrcD
GfB
GfC

LANGLEY PARK PLZA INC
ACCT NO 17 01634118

LANGLEY EASSOCIAT
ACCT NO 17 01906924

NEW POTOMAC LTDPARTNERS
ACCT NO 17 01955145

NEYESH PROPERTIE
ACCT NO 17 01904598

MELHRAVINDER K
ACCT NO 17 01952753

JEP BOYSMANNY MDE
ACCT NO 17 01953746

T & H LIMITEDPARTNERS
ACCT NO 17 01672704

BROWNSTUART G
ACCT NO 17 01973247

BROWNSTUART G
ACCT NO 17 01973257

WALGREEN CO
ACCT NO: 13 03166994

WALGREEN CO
ACCT NO: 13 03167008

WALGREEN CO
ACCT NO: 13.03167010

SAUL SUBS DIARY-I LTD PART
ACCT NO: 13 03161092

SAUL SUBSIDIARY I LTD PART
ACCT NO: 13 03161092

UN LANG PARK ASSO LTD
ACCT NO: 13 03177587

S & B RUTSTE N FAM LY LLC
ACCT NO: 13 03169931

SHELLHORN LANGLY LLC
ACCT NO 17 01917210

HECHINGER PLAZALIMITED
ACCT NO 17 01973239

ASIAN GROUP LLC
ACCT NO 17 01834126

243
244

THIS PLAN WAS PREPARED BY:
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CHEVY CHASE
TAKOMA PARK
BERWYN HEIGHTS
UNIVERSITY PARK
RIVERDALE
NEW CARROLLTON
MERSET
EDMONSTON
LANDOVER HILLS

Purple Line

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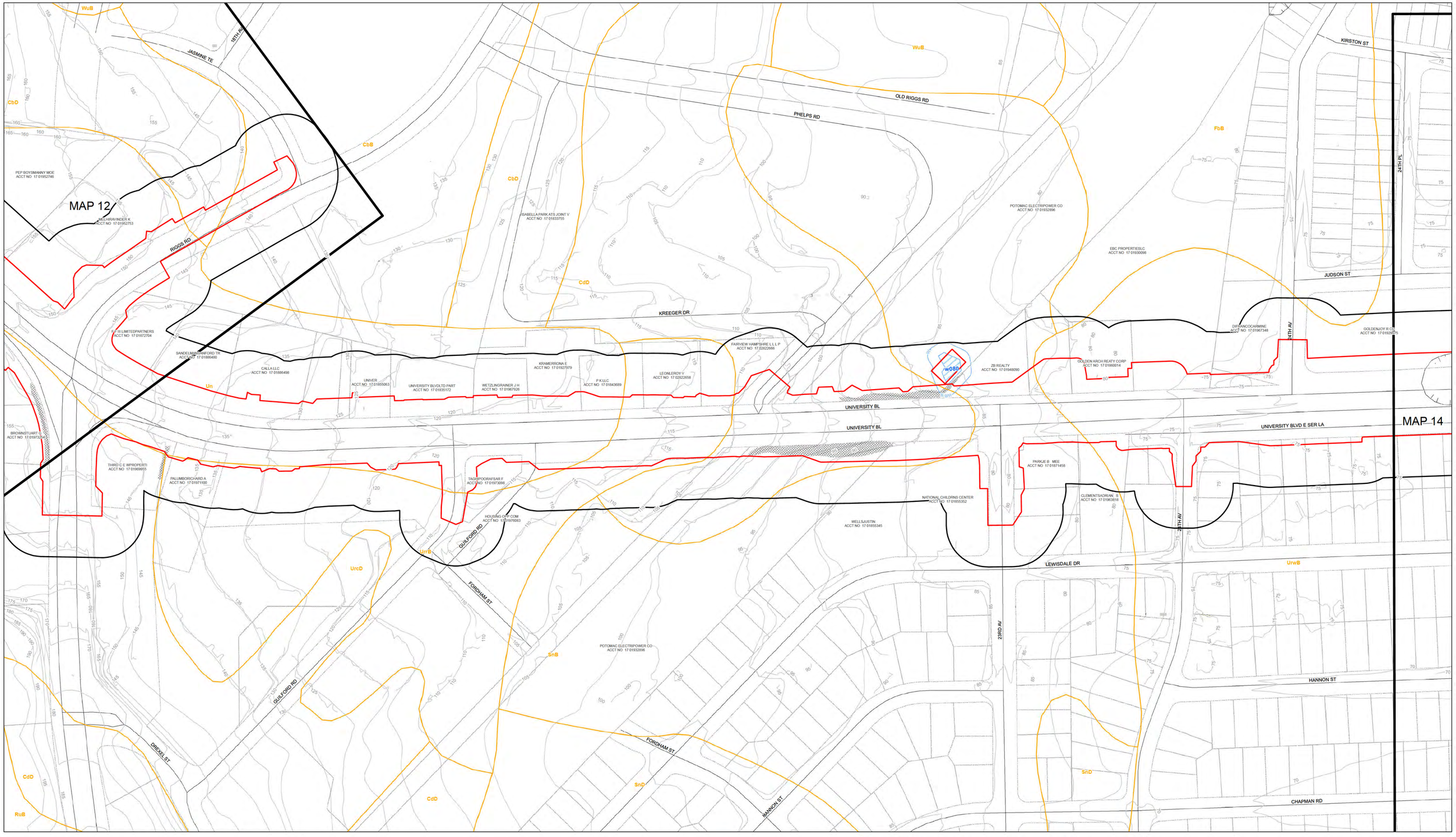
MAP 12 of 25



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QUALIFIED PROFESSIONAL (2009)

Bridgette Garner 3/7/2014

BRIDGETTE GARNER — DATE
COASTAL RESOURCES, INC.

N
W E
S

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March 2014

MAP 13 of 25

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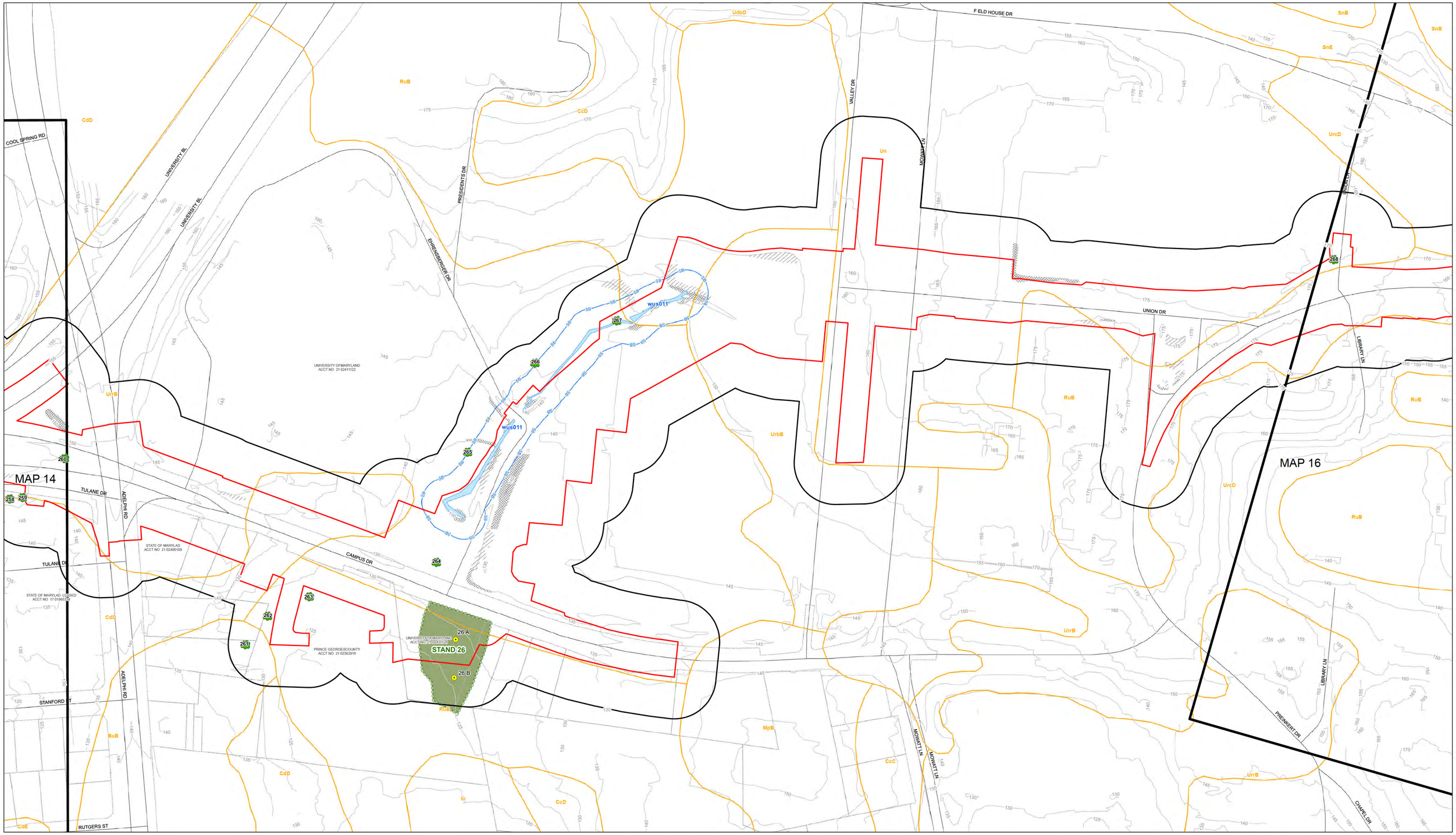
March 2014

MAP 14 of 25



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3/7/2014

BRIDGETTE GARNER — DATE
COASTAL RESOURCES, INC.

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S

SCALE:

1 Inch = 100 Feet

0 50 100 200 Feet

LEGEND:

- FSD STUDY AREA
- FEIS LOD
- PROPERTY BOUNDARY
- EXISTING CONTOUR
- ROADWAY
- FOREST STAND
- SPECIMEN TREE
- SAMPLE PLOT
- INTERMITTENT/PERENNIAL STREAM
- EPHEMERAL CHANNEL
- DELINEATED WETLAND
- 25-FT WETLAND BUFFER
- 50-FT STREAM BUFFER
- OPEN WATER
- 15% SLOPES (ON ERODIBLE SOIL)
- 25% SLOPES
- SOIL TYPE BOUNDARY
- 100-YEAR FLOODPLAIN

Purple Line

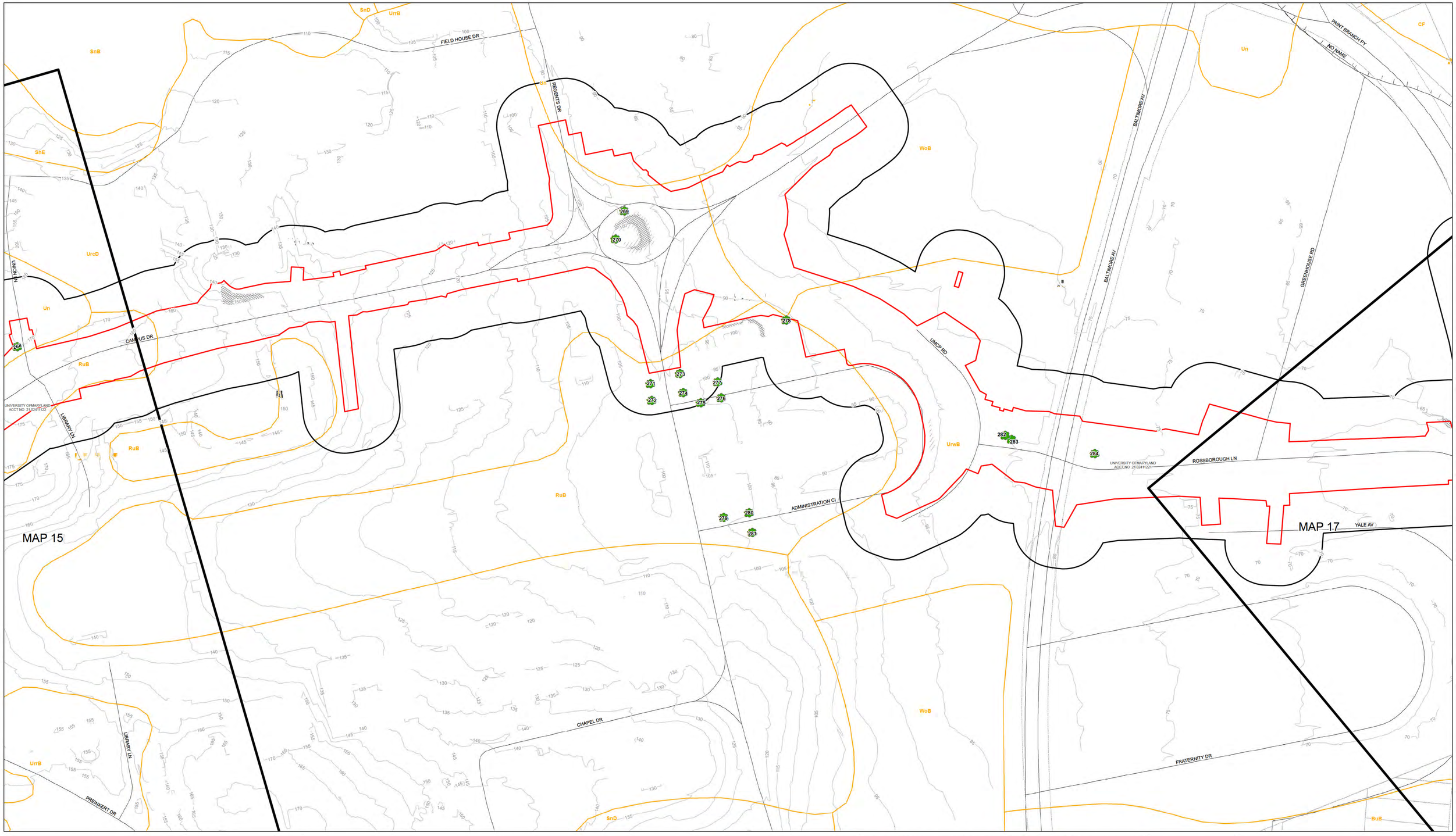
COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 15 of 25



THIS PLAN WAS PREPARED BY:
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MARYLAND DEPARTMENT OF NATURAL RESOURCES
QUALIFIED PROFESSIONAL (2009)

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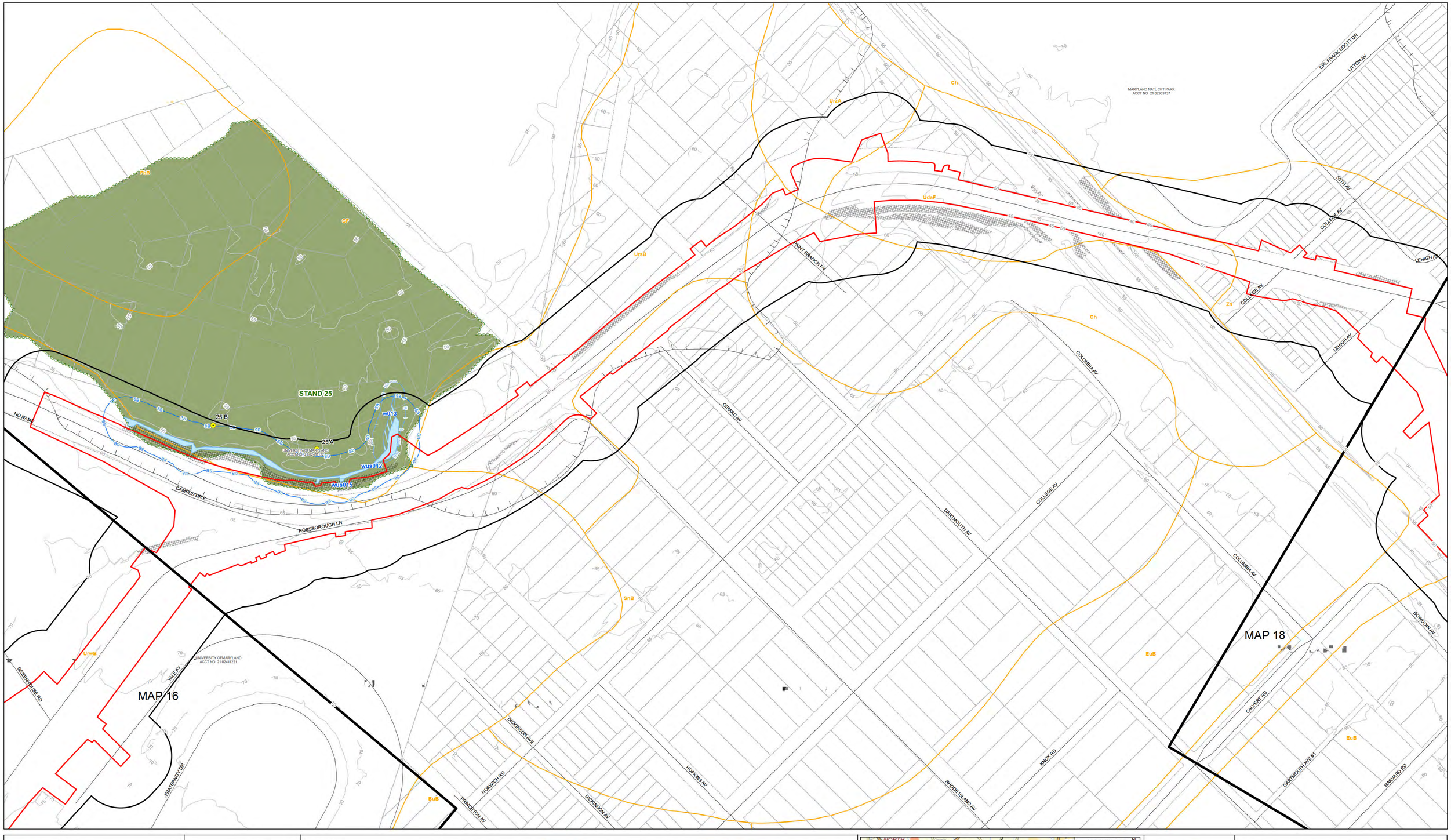
Montgomery and Prince George's Counties, Maryland

March 2014

MAP 16 of 25



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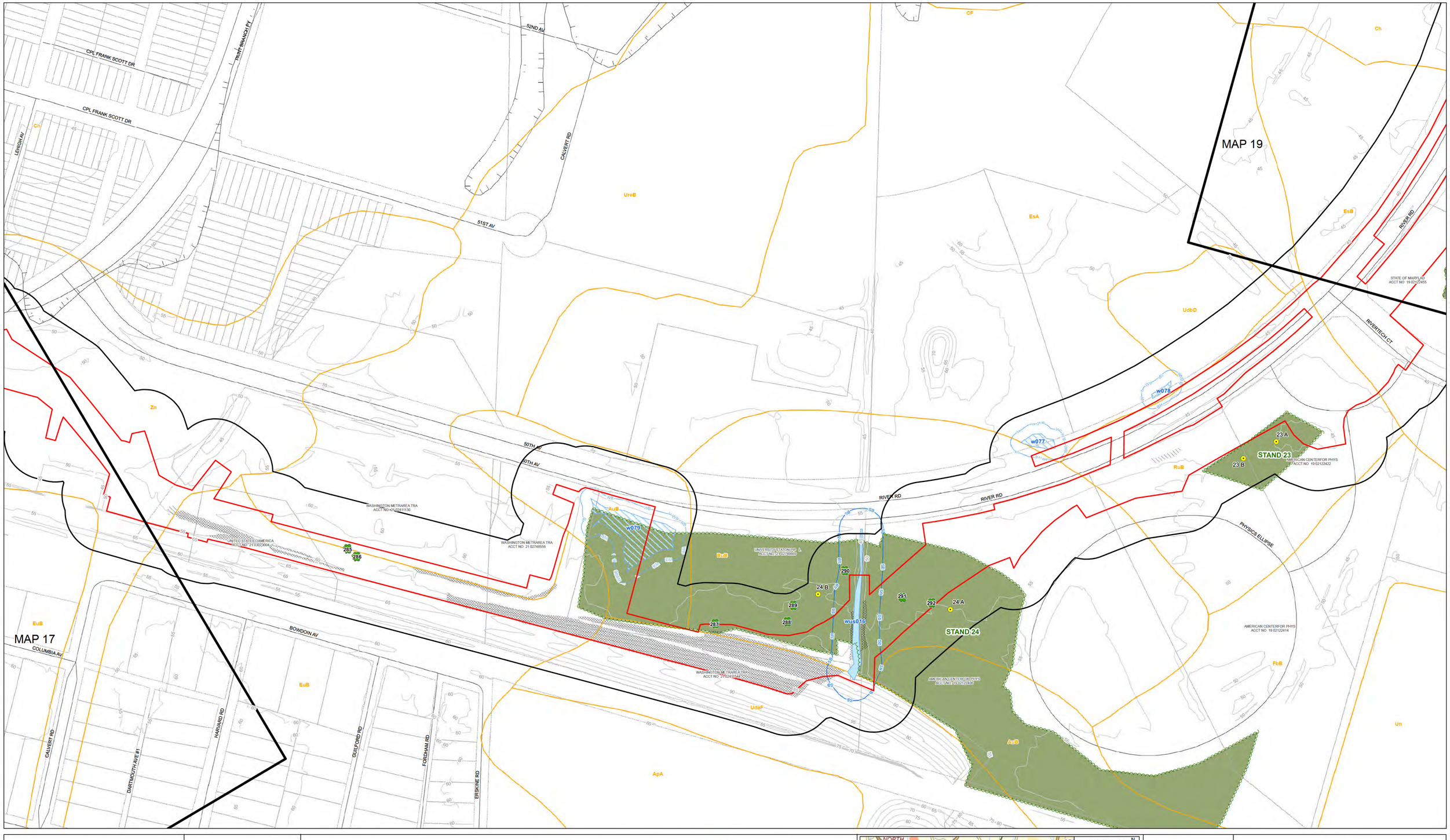
March 2014

MAP 17 of 25



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ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 18 of 25

MAP 18

MAP 20

STAND 22

STAND 21

STAND 56

STAND 20

RIVER RD

TENNYSON ST

TUCKERMAN ST

SOMERSET RD

SHERIDAN ST

RAVENSWOOD RD

RITTENHOUSE ST

HANG DR

KENILWORTH AV

57TH AV

58TH AV

59TH AV

59TH PL

51ST AV

MARYLAND NATL CPT PARK ACCT NO 19 02148575

RIVERSIDE ASSOCIAT ACCT NO 19 02122372

ATLANTIC KOR AMR PRES PRE ACCT NO 19 02150613

ATLANTIC KOR AMR PRES PRE ACCT NO 19 02150605

MARYLAND NATL CPT PARK ACCT NO 19 02168589

COOPERSMITH ESTHER ACCT NO 19 02150672

KENRIVER LLC ACCT NO 19 02161826

RINALDIS RIVERDALE BOYS LL ACCT NO 19 02150626

NUCCOLS BUILDINNC ACCT NO 19 02142388

SAMUELKARINA ACCT NO 19 02147791

RIVERTECHPROPERT ACCT NO 19 02045269

STATE OF MARYLAND ACCT NO 19 02147677

STATE OF MARYLAND ACCT NO 19 02147645

STATE OF MARYLAND ACCT NO 19 02147654

wus018

w019

w045

w021

wus20

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VICINITY MAP
1 in = 2 miles

NORTH CHEVY CHASE
BERWYN HEIGHTS
UNIVERSITY PARK
NEW CARROLLTON
RIVERDALE
EDMONSTON
LANDOVER HILLS
MERSET

Purple Line

COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 19 of 25

MAP 19

MAP 21

STAND 20

STAND 19

STAND 19

303

304

305

19 A

19 B

w075

wus018

QUESADA RD

QUINTANA ST

QUINTANA ST

QUINTANA ST

PATTERSON RD

PATTERSON RD

EAST WEST HY

EAST WEST HY

POWHATAN RD

RIVERDALE RD

RIVERDALE RD

RIVERDALE RD

RITTENHOUSE ST

MUSTANG DR

GREENVALE PY

KENILWORTH AV

57TH AV

58TH AV

59TH AV

60TH AV

61ST PL

54TH PL

54TH AV

ROANOKE AV

RINALDIS RIVERDLE BOWL LL
ACCT NO 19 02156925

NUGGOLS BUILDINNC
ACCT NO 19 02142388

SAMUELKARINA
ACCT NO 19 02147791

TRAGERMARALINE A
ACCTNO 19 02164473

TRAGERMARALINE A
ACCT NO 19 02164457

TRAGERMARALINE A
ACCT NO 19 02144376

STOKESBARNEY C
ACCT NO 19 02165149

OLUSOLAEMMANUEL
ACCT NO 19 02137537

QUINTANA HOLDINS LLC
ACCT NO 19 02138154

QUINTANA HOLDINS LLC
ACCT NO 19 02138154

KOHERIC J M
ACCT NO 19 02156228

NJINNEZEMMA
ACCT NO 19 02128361

DARDENMICHAEL D
ACCT NO 19 02162196

ROMAN CATHOLICARCH OF
ACCT NO 19 02153922

REFRESHING SPRGS C O G I
ACCT NO 19 02129974

REFRESHING SPRGS CHURCH
ACCT NO 19 02129974

CdD

CdE

Ch

W

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Purple Line

COASTAL RESOURCES INC.

PURPLE LINE
FOREST STAND DELINEATION
ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 20 of 25

MAP 20

MAP 22

STAND 55

STAND 18

STAND 16

STAND 15

STAND 17

55 A

55 B

18 A

18 B

16 A

16 B

15 A

15 B

17 A

17 B

306

307

308

w024

wus023

wus062

RIVERDALE RD

PATTERSON ST

MUSTANG DR

MUSTANG CT

MUSTANG PL

POWHATAN ST

EASTPINE DR

OLIVER ST

ROANOKE AV

63RD PL

63RD AV

64TH AV

64TH PL

65TH PL

66TH AV

67TH AV

67TH PL

64TH AV

RAMP 8 FR MD 295 SB TO RIVERDALE RD

RAMP 2 FR RIVERDALE RD TO MD 295 NB

RAMP 6 FR RIVERDALE RD TO MD 295 SB

RAMP 4 FR MD 295 NB TO RIVERDALE RD

BALTIMORE WASHINGTON PY SB

BALTIMORE WASHINGTON PY NB

FERNWOOD RD

ANDRADE ROXANA
ACCT NO 19 02125606

PICKETT FERNWOOD
ACCT NO 19 02154656

PRINCE GEORGES COUNTY
ACCT NO 19 02125769

DOV APARTMENTS LP
ACCT NO 19 02132553

EXXON CORPORATIN
ACCT NO 19 02133538

CHOIMYONG H
ACCT NO 19 02132520

CHOIMYONG H
ACCT NO 19 02134823

CHOIMYONG H
ACCT NO 19 02132470

CHOIMYONG H
ACCT NO 19 02134815

RuB

CdD

CcE

SnB

Iu

GbD

WuB

UdaA

Un

GdE

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NORTH CHEVY CHASE
CHEVY CHASE TOWN
MERSET
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UNIVERSITY PARK
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EDMONSTON
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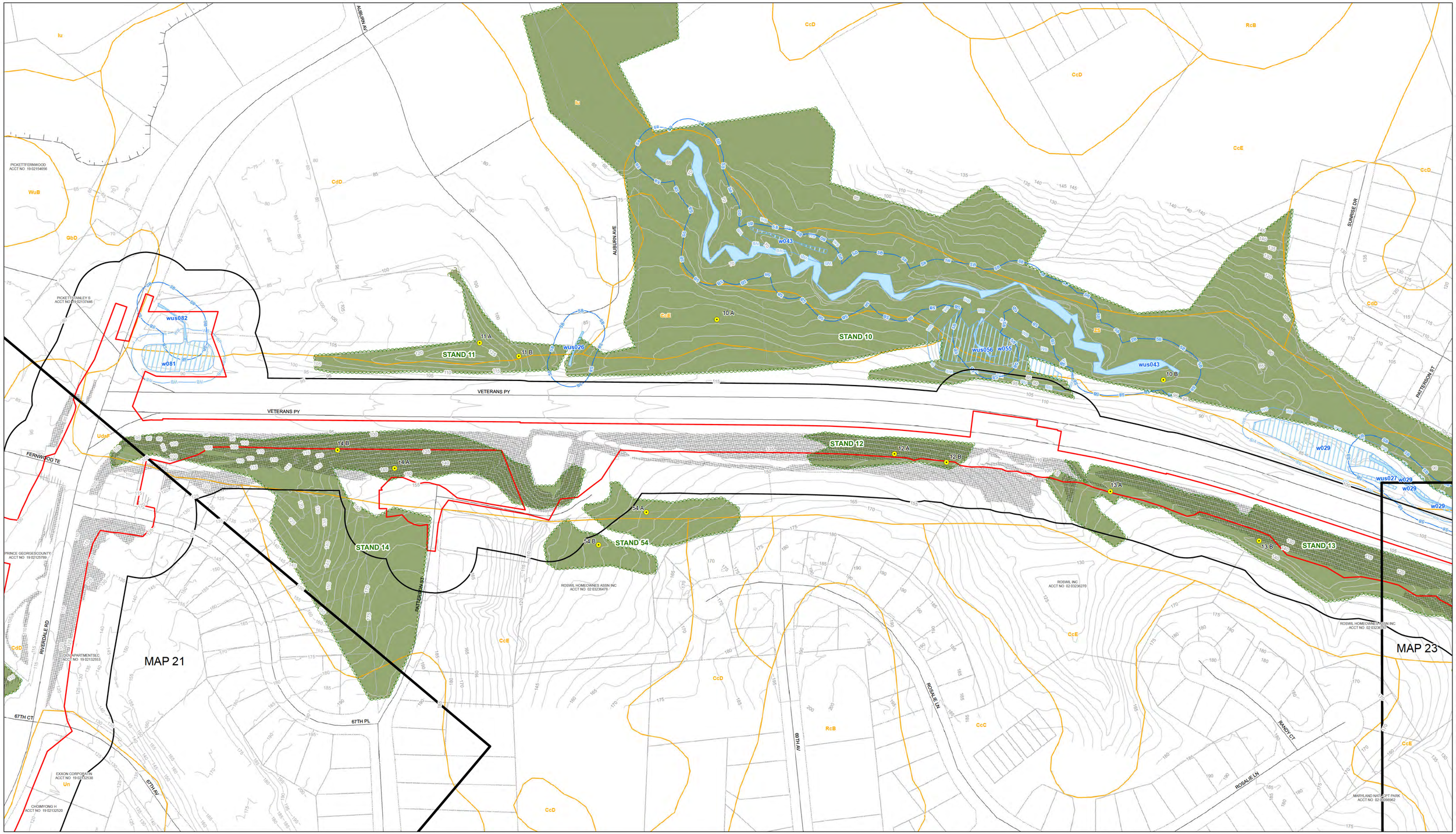

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ENVIRONMENTAL FEATURES MAP

Montgomery and Prince George's Counties, Maryland

March 2014

MAP 22 of 25

MAP 22

MAP 24

STAND 10
STAND 9
STAND 13
STAND 7
STAND 8
STAND 6
STAND 5
STAND 4
STAND 3

9 B
9 A
311
312
313
wus028
wus027
wus030
wus048
7 A
309
7 B
310
wus032
wus064
6 A
6 B
wus063
w074
5 B
5 A
wus039
3 B
8 A
8 B
w029
wus027
ZS
w047
wus070

SUNRISE DR
VETERANS PY
HENDRICKS DR
78TH CT
JEFFERSON ST
JEFFERSON CT
INGRAHAM ST
78TH AV
GALLATIN ST
72ND AV
72ND PL
MARYWOOD ST
GLENRIDGE DR
ANNAPOLIS RD
CHESAPEAKE RD
BUCHANAN ST

CdD
CcE
CcC
CcD
CcC
BuB
UduB
UduF
CcE
UrcD
W
CcD
CcC
RuB
UrwB
DuB
RuB
UrrB
UrrB
SnB
SnD
Un
RuB

ROSWIL HOMEOWNES ASSN INC
ACCT NO 02032367

MARYLAND NATL CPT PARK
ACCT NO 02 00056962

MARYLAND NATL CPT PARK
ACCT NO 02 001461757

COUNTY CENTERJOINT VE
ACCT NO 20 02191583

COUNTY CENTERJOINT VE
ACCT NO 20 02191575

BOARD OF EDUCATON
ACCT NO 20 02176782

COUNTY CENTERJOINT VE
ACCT NO 20 02191575

TRENNERSCOTT K
ACCT NO 20 02201390

WASHINGTON SUBSANCARY
ACCT NO 20 02275258

HASAMUEL S
ACCT NO 20 02179629

PICKETTSTANLEY S
ACCT NO 20 02213106

PICKETTSTANLEY S
ACCT NO 20 02213098

PITROCK REALTYCORP
ACCT NO 20 02221125

LANDOVER HILLS OF VETERA
ACCT NO 20 02174835

KAY FAMILY LTDPARTNERS
ACCT NO 20 02198588

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VICINITY MAP
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NORTH CHEVY CHASE
CHEVY CHASE VIEW
MERSET
GREENBELT
BERWYN HEIGHTS
UNIVERSITY PARK
RIVERDALE
NEW CARROLLTON
EDMONSTON
LANDOVER HILLS

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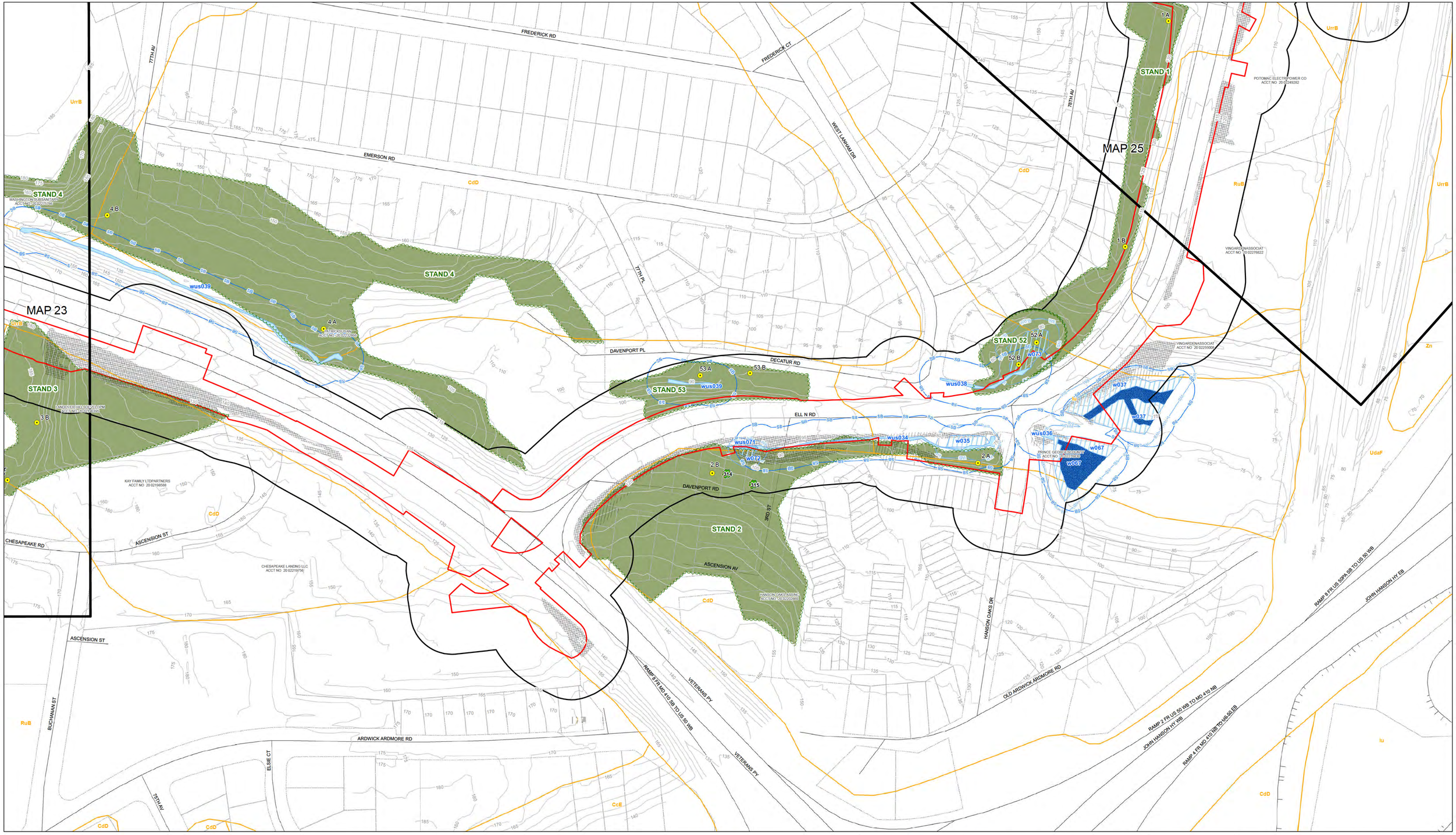

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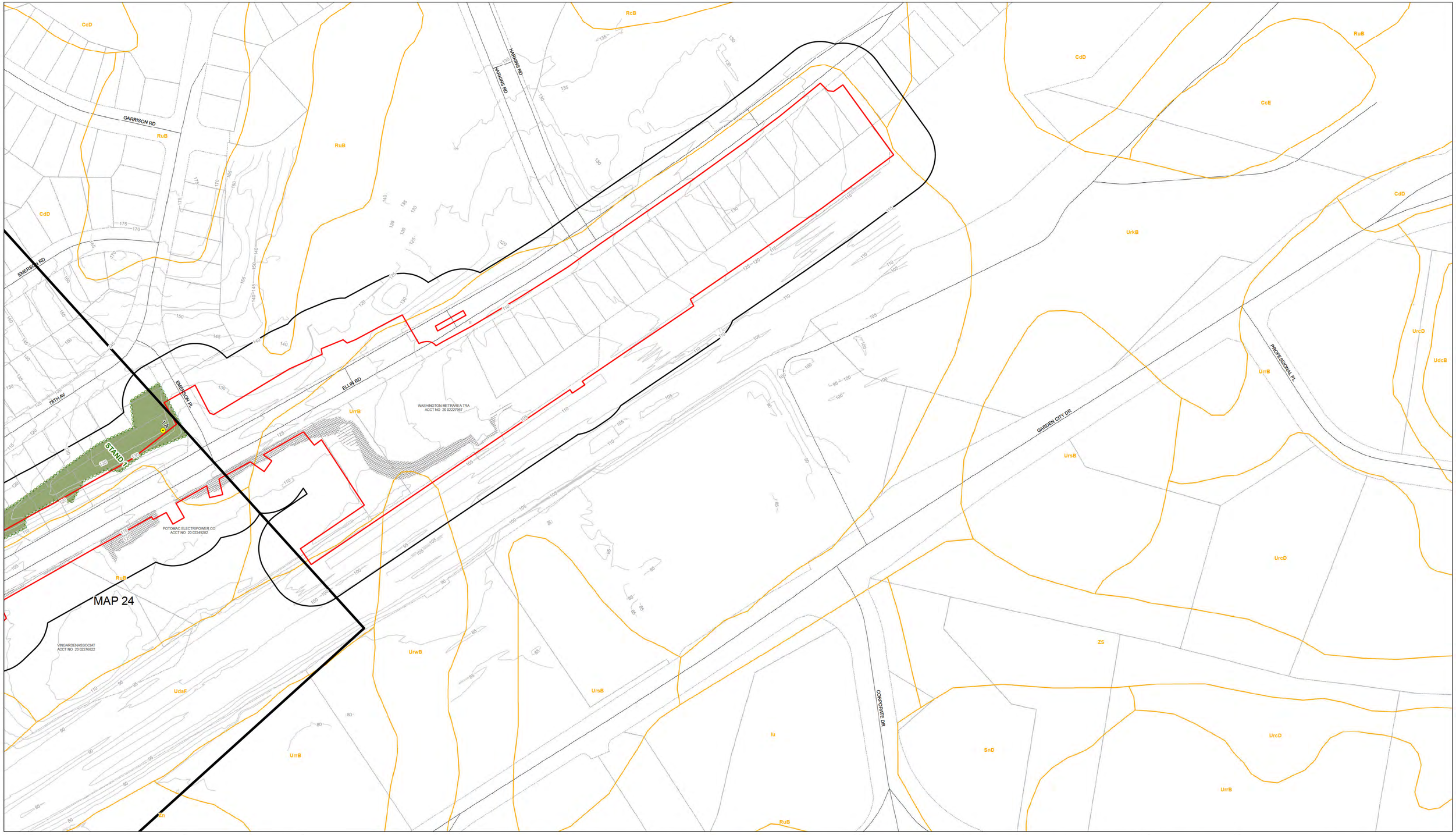

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Montgomery and Prince George's Counties, Maryland

March 2014

MAP 25 of 25

SOILS IN THE STUDY AREA

MAP SYMBOL	MAP UNIT NAME	% HYDRIC	K-VALUE	PRIME OR UNIQUE FARMLAND	Restricitons and Limitations
1B	Gaila silt loam, 3-8% slopes	5	0.24-0.37	YES	Somewhat limited due to frost action
1C	Gaila silt loam, 8-15% slopes	5	0.24-0.37	NO	Somewhat limited due to frost action and slope
2B	Glenelg silt loam, 3-8% slopes	5	0.32-0.49	YES	Somewhat limited due to frost action
2C	Glenelg silt loam, 8-15% slopes	5	0.32-0.49	NO	Somewhat limited due to frost action and slope
2UB	Glenelg-Urban land complex, 0-8% slopes	5	0.32-0.49	NO	Somewhat limited due to frost action
2UC	Glenelg-Urban land complex, 8-15% slopes	5	0.32-0.49	NO	Somewhat limited due to frost action and slope
5B	Glenville silt loam, 3-8% slopes	5	0.24-0.32	NO	Very limited due to wetness and frost action
7UC	Gaila-Urban land complex, 8-15% slopes	5	0.24-0.37	NO	Somewhat limited due to frost action and slope
16D	Brinklow-Blocktown channery silt loam, 15-25% slopes	5	0.10-0.24	NO	Very limited due to slope, depth to bedrock, and frost action
53A	Codorus silt loam, 0-3% slopes, occasionally flooded	10	0.24-0.49	NO	Very limited due to flooding and frost action
54A	Hatboro silt loam, 0-3% slopes, frequently flooded	100	0.20-0.49	NO	Very limited due to flooding, wetness, and frost action
65B	Wheaton silt loam, 0-8% slopes	0	0.37-0.49	NO	Somewhat limited due to frost action
67UB	Urban land-Wheaton complex, 0-8% slopes	5	0.37-0.49	NO	Somewhat limited due to frost action
400	Urban land	N/A	N/A	N/A	N/A
AuB	Aquaso-Urban land complex, 0-5% slopes	0	0.20-0.37	NO	Very limited due to frost action, low strengh, depth to thick cemented pan, and depth to saturated zone
BuB	Beltsville-Urban land complex, 0-5% slopes	5	0.20-0.37	NO	Somewhat limited due to depth to thick cemented pan, frost action, and depth to saturated zone
CbB	Chillum-Urban land complex, 0-5% slopes	0	0.20-0.37	NO	Somewhat limited due to low strength and frost action
CbD	Chillum-Urban land complex, 5-15% slopes	0	0.20-0.37	NO	Somewhat limited due to low strength and frost action
CcC	Christiana-Downer complex, 5-10% slopes	5	0.43-0.49	NO	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CcD	Christiana-Downer complex, 10-15% slopes	5	0.43-0.49	NO	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CcE	Christiana-Downer complex, 15-25% slopes	5	0.43-0.49	NO	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CdD	Christiana-Downer-Urban land complex, 5-15% slopes	0	0.43-0.49	NO	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CdE	Christiana-Downer-Urban land complex, 15-25% slopes	5	0.43-0.49	NO	Somewhat limited due to slope, frost action, low strength, and depth to saturated zone
CF	Codorus and Hatboro soils, frequently flooded	40	0.37	NO	Very limited due to flooding, frost action, and depth to saturated zone
Ch	Codorus-Hatboro-Urban land complex, frequently flooded	30	0.37	NO	Very limited due to flooding, frost action, and depth to saturated zone
EsA	Elsinboro sandy loam, 0-2% slopes	0	0.17-0.28	NO	Somewhat limited due to frost action and flooding
EsB	Elsinboro sandy loam, 2-5% slopes	0	0.17-0.28	NO	Somewhat limited due to frost action and flooding
EuB	Elsinboro-Urban land complex, 0-5% slopes	0	0.17-0.28	NO	Somewhat limited due to frost action and flooding
FbB	Fallsington-Urban land complex, 0-5% slopes	55	0.10-0.24	NO	Very limited due to ponding, depth to saturated zone, and frost action
GbD	Galestown-Urban land complex, 5-15% slopes	0	0.10	NO	Somewhat limited due to slope
GfB	Glenelg-Wheaton-Urban land complex, 0-8% slopes	0	0.32-0.49	YES	Somewhat limited due to low strength and frost action
Iu	Issue-Urban land complex, occasionally flooded	10	0.37	NO	Very limited due to flooding, depth to saturation zone, and frost action
MpB	Matapeake silt loam, 2-5% slopes	0	0.20-0.37	YES	Very limited due to frost action
RuB	Russett-Christiana-Urban land complex, 0-5% slopes	0	0.15-0.37	NO	Somewhat limited due to frost action, low strength, and depth to saturation zone
SnB	Sassafras-Urban land complex, 0-5% slopes	0	0.17-0.32	NO	Somewhat limited due to frost action
UdaF	Udorthents, highway, 0-65% slopes	N/A	N/A	N/A	N/A
UdbD	Udorthents, loamy, 5-15% slopes	0	0.37	NO	Somewhat limited due to frost action and slope
UduB	Udorthents-Urban land complex, 0-5% slopes	0	0.32	NO	Somewhat limited due to frost action
Un	Urban land	N/A	N/A	N/A	N/A
UrbB	Urban land-Beltsville comlex, 0-5% slopes	0	0.15-0.49	NO	Somewhat limited due to a thick cemented pan, frost action, and depth to saturated zone
UrcD	Urban land-Christiana-Downer complex, 5-15% slopes	0	0.32-0.55	NO	Somewhat limited due to frost action, low strength, slope, and depth to saturation zone
UreB	Urban land-Elsinboro complex, 0-5% slopes	0	0.17-0.28	NO	Somewhat limited due to frost action and flooding
UrkB	Urban land-Issue Complex, 0-5% slopes	0	0.37	NO	Very limited due to flooding, depth to saturation zone, and frost action
UrrB	Urban land-Russett-Christiana complex, 0-5% slopes	0	0.15-0.37	NO	Somewhat limited due to frost action, low strength, and depth to saturation zone
UrsB	Urban land-Sassafras complex, 0-5% slopes	0	0.15-0.37	NO	Somewhat limited due to frost action
UrwB	Urban land-Woodstown complex, 0-5% slopes	0	0.10-0.37	NO	Somewhat limited due to shrink-swell, frost action, and depth to saturated zone
UrzA	Urban land-Zekiah complex, 0-2% slopes, frequently flooded	0	0.24-0.49	NO	Very limited due to ponding, depth to saturated zone, frost action, and flooding
W	Water	N/A	N/A	N/A	N/A
WoB	Woodstown sandy loam, 2-5% slopes	5	0.10-0.37	YES	Somewhat limited due to shrink-swell, frost action, and depth to saturated zone
WuB	Woodstown-Urban land complex, 0-5% slopes	5	0.10-0.37	YES	Somewhat limited due to shrink-swell, frost action, and depth to saturated zone
Zn	Zekiah-Urban land complex, frequently flooded	55	0.24-0.49	NO	Very limited due to ponding, depth to saturated zone, frost action, and flooding
ZS	Zekiah and Issue soils, frequently flooded	60	0.24-0.49	NO	Very limited due to ponding, depth to saturated zone, frost action, and flooding

FOREST STANDS WITHIN THE STUDY AREA

Stand	Size (Acres) Within Project Area		Retention Priority
	100' Buffer	LOD	
1	1.18	0.30	3
2	1.64	0.29	1; due to specimen trees, steep slopes, wetlands, and waterways
3	1.17	0.24	1; due to steep slopes
4	0.05	0.00	3
5	0.00	0.00	N/A; located outside of study area
6	1.55	1.40	1; due to steep slopes
7	2.71	5.19	1; due to specimen trees, steep slopes, and waterways
8	0.15	0.02	3
9	0.00	0.00	N/A; located outside of study area
10	0.54	0.00	1; due to the presence of wetlands and waterways
11	0.00	0.00	N/A; located outside of study area
12	0.17	0.39	1; due to steep slopes
13	1.09	1.63	1; due to steep slopes
14	1.82	1.07	1; due to steep slopes and wetlands
15	0.55	0.34	1; due to steep slopes
16	1.64	0.05	3
17	0.77	0.00	1; due to steep slopes
18	0.37	0.00	1; due to specimen trees and steep slopes
19	3.46	1.69	1; due to specimen trees and steep slopes
20	2.05	0.68	1; due to the presence of specimen trees, steep slopes, and streams
21	0.12	0.10	1; due to steep slopes and waterways
22	2.14	0.84	1; due to wetlands and waterways
23	0.44	0.10	3
24	2.95	2.07	1; due to specimen trees, steep slopes, and waterways
25	1.89	0.22	1; due to steep slopes, wetlands, and waterways
26	0.26	0.43	3
27	1.15	0.71	1; due to the presence of specimen trees, steep slopes, wetlands, and waterways
28	1.79	0.68	1; due to the presence of steep slopes, waterway, and wetlands
29	0.94	0.39	1; due to specimen trees, steep slopes, and waterways
30	0.56	0.99	1; due to steep slopes and waterways
31	0.28	0.12	1; due to steep slopes
32	0.73	0.45	1; due to specimen trees, steep slopes, and waterways
33	0.38	0.04	1; due to steep slopes
34	0.15	0.04	1; due to specimen trees
35	0.69	0.26	1; due to steep slopes and waterways
36	0.02	0.67	1; due to specimen trees, steep slopes, and waterways
37	0.02	0.30	1; due to steep slopes
38	0.41	0.92	1; due to specimen trees and steep slopes
39	1.22	0.54	1; due to specimen trees and steep slopes
40	0.17	0.21	1; due to specimen trees and steep slopes
41	0.34	1.46	1; due to steep slopes
42	0.73	0.08	1; due to steep slopes
43	0.00	0.30	1; due to specimen trees and steep slopes
44	0.08	0.40	1; due to specimen trees and steep slopes
45	0.17	1.40	1; due to the presence of specimen trees, steep slopes, and stream
46	1.27	4.81	1; due to specimen trees and steep slopes
47	4.59	4.03	1; due to specimen trees and steep slopes, wetlands, and waterways
48	1.40	6.14	1; due to specimen trees and steep slopes, and waterways
49	0.90	0.93	1; due to specimen trees
50	1.43	2.82	1; due to specimen trees and steep slopes
51	0.90	0.86	1; due to specimen trees, steep slopes, and waterways
52	0.50	0.13	1; due to wetlands and waterways
53	0.78	0.06	1; due to waterways
54	0.30	0.00	3
55	0.98	0.28	1; due to specimen trees, wetlands, and waterways.
56	0.69	0.55	3
Total	52	48	

SPECIMEN TREES

Tree ID	Common Name	Scientific Name	DBH (inches)	Condition	Map No.
1	red maple	*Acer rubrum*	37.0	Poor	1
2	red maple	*Acer rubrum*	47.0	Fair	1
3	slippery elm	*Ulmus rubra*	50.0	Good	1
4	black walnut	*Juglans nigra*	31.7	Good	1
5	black walnut	*Juglans nigra*	30.5	Good	1
6	tulip poplar	*Liriodendron tulipifera*	40.0	Fair	1
7	black walnut	*Juglans nigra*	34.0	Good	1
8	tulip poplar	*Liriodendron tulipifera*	40.0	Fair	1
9	tulip poplar	*Liriodendron tulipifera*	32.0	Good	1
10	tulip poplar	*Liriodendron tulipifera*	37.2	Good	1
11	tulip poplar	*Liriodendron tulipifera*	35.0	Good	1
12	tulip poplar	*Liriodendron tulipifera*	45.0	Good	1
13	tulip poplar	*Liriodendron tulipifera*	37.1	Good	1
14	tulip poplar	*Liriodendron tulipifera*	33.6	Good	1
15	tulip poplar	*Liriodendron tulipifera*	38.9	Fair	1
16	pin oak	*Quercus palustris*	34.4	Good	1
17	tulip poplar	*Liriodendron tulipifera*	35.0	Good	1
18	tulip poplar	*Liriodendron tulipifera*	31.0	Good	1
19	red maple	*Acer rubrum*	35.0	Good	1
20	eastern cottonwood	*Populus deltoides*	41.0	Fair	2
21	red maple	*Acer rubrum*	36.1	Fair	2
22	American sycamore	*Platanus occidentalis*	38.6	Good	2
23	willow oak	*Quercus phellos*	34.0	Good	2
24	tulip poplar	*Liriodendron tulipifera*	38.2	Good	2
25	tulip poplar	*Liriodendron tulipifera*	33.3	Fair	2
26	tulip poplar	*Liriodendron tulipifera*	36.7	Fair	2
27	tulip poplar	*Liriodendron tulipifera*	45.7	Good	2
28	tulip poplar	*Liriodendron tulipifera*	42.7	Good	2
29	tulip poplar	*Liriodendron tulipifera*	32.8	Good	2
30	tulip poplar	*Liriodendron tulipifera*	40.8	Good	2
31	American sycamore	*Platanus occidentalis*	38.7	Good	2
32	black oak	*Quercus velutina*	36.0	Good	2
33	willow oak	*Quercus phellos*	30.0	Good	2
34	tulip poplar	*Liriodendron tulipifera*	35.0	Good	2
35	white pine	*Pinus strobus*	30.0	Good	2
36	tulip poplar	*Liriodendron tulipifera*	30.0	Good	2
37	tulip poplar	*Liriodendron tulipifera*	30.0	Good	2
38	tulip poplar	*Liriodendron tulipifera*	32.0	Good	2
39	tulip poplar	*Liriodendron tulipifera*	38.0	Good	2
40	tulip poplar	*Liriodendron tulipifera*	38.0	Good	2
41	tulip poplar	*Liriodendron tulipifera*	44.5	Good	2
42	American sycamore	*Platanus occidentalis*	46.7	Good	2
43	American sycamore	*Platanus occidentalis*	46.0	Poor	2
44	silver maple	*Acer saccharinum*	41.7	Fair	2 & 3
45	silver maple	*Acer saccharinum*	38.2	Fair	2 & 3
46	silver maple	*Acer saccharinum*	49.5	Fair	2 & 3
47	eastern cottonwood	*Populus deltoides*	43.5	Good	2 & 3
48	eastern cottonwood	*Populus deltoides*	43.4	Fair	2 & 3
49	silver maple	*Acer saccharinum*	59.6	Fair	3
50	silver maple	*Acer saccharinum*	41.6	Fair	3
51	black locust	*Robinia pseudoacacia*	36.1	Fair	3
52	black locust	*Robinia pseudoacacia*	34.7	Poor	3
53	silver maple	*Acer saccharinum*	43.7	Fair	3
54	silver maple	*Acer saccharinum*	41.3	Poor	3
55	silver maple	*Acer saccharinum*	35.5	Fair	3
56	black locust	*Robinia pseudoacacia*	37.4	Poor	3
57	black locust	*Robinia pseudoacacia*	44.3	Fair	3
58	silver maple	*Acer saccharinum*	38.4	Good	3
59	American sycamore	*Platanus occidentalis*	38.8	Good	3
60	silver maple	*Acer saccharinum*	42.0	Fair	3
61	silver maple	*Acer saccharinum*	35.5	Poor	3
62	tulip poplar	*Liriodendron tulipifera*	35.0	Good	3
63	black walnut	*Juglans nigra*	33.9	Good	3
64	black locust	*Robinia pseudoacacia*	33.7	Fair	3
65	American sycamore	*Platanus occidentalis*	34.5	Good	3
66	American sycamore	*Platanus occidentalis*	36.0	Fair	3
67	northern catalpa	*Catalpa speciosa*	34.3	Poor	3
68	American sycamore	*Platanus occidentalis*	36.7	Good	3
69	silver maple	*Acer saccharinum*	33.5	Fair	3
70	black locust	*Robinia pseudoacacia*	32.0	Fair	3
71	black cherry	*Prunus serotina*	30.0	Fair	3
72	eastern cottonwood	*Populus deltoides*	32.1	Fair	3
73	silver maple	*Acer saccharinum*	35.0	Fair	3
74	silver maple	*Acer saccharinum*	43.5	Fair	3
75	silver maple	*Acer saccharinum*	50.0	Good	3
76	eastern cottonwood	*Populus deltoides*	33.2	Good	3
77	eastern cottonwood	*Populus deltoides*	31.0	Fair	3
78	tulip poplar	*Liriodendron tulipifera*	35.9	Good	3
79	silver maple	*Acer saccharinum*	43.0	Good	3
80	silver maple	*Acer saccharinum*	47.4	Fair	3
81	silver maple	*Acer saccharinum*	48.2	Fair	3
82	eastern cottonwood	*Populus deltoides*	34.1	Fair	3
83	silver maple	*Acer saccharinum*	37.5	Fair	3
84	black walnut	*Juglans nigra*	41.5	Good	3
85	tulip poplar	*Liriodendron tulipifera*	35.3/38.7	Good	3
86	tulip poplar	*Liriodendron tulipifera*	31.8	Good	3
87	tulip poplar	*Liriodendron tulipifera*	30.1	Good	3
88	tulip poplar	*Liriodendron tulipifera*	34.2	Good	3
89	tulip poplar	*Liriodendron tulipifera*	31.3	Good	3
90	tulip poplar	*Liriodendron tulipifera*	32.8	Good	3
91	tulip poplar	*Liriodendron tulipifera*	30.7	Good	3
92	tulip poplar	*Liriodendron tulipifera*	42.0	Good	3
93	tulip poplar	*Liriodendron tulipifera*	34.5	Good	3
94	tulip poplar	*Liriodendron tulipifera*	32.6	Good	3
95	tulip poplar	*Liriodendron tulipifera*	40.2/40.1	Good	3
96	tulip poplar	*Liriodendron tulipifera*	32.5	Good	3
97	tulip poplar	*Liriodendron tulipifera*	34.4	Good	3
98	tulip poplar	*Liriodendron tulipifera*	38.2	Good	3
99	tulip poplar	*Liriodendron tulipifera*	42.1	Good	3
100	tulip poplar	*Liriodendron tulipifera*	35.2	Good	3
101	tulip poplar	*Liriodendron tulipifera*	33.4	Fair	3
102	tulip poplar	*Liriodendron tulipifera*	31.8	Good	3
103	tulip poplar	*Liriodendron tulipifera*	32.3	Good	3
104	tulip poplar	*Liriodendron tulipifera*	37.9	Good	3
105	tulip poplar	*Liriodendron tulipifera*	46.3	Good	3
106	tulip poplar	*Liriodendron tulipifera*	30.0	Good	3
107	tulip poplar	*Liriodendron tulipifera*	30.0	Good	3
108	tulip poplar	*Liriodendron tulipifera*	32.5/32.0	Fair	3 & 4
109	tulip poplar	*Liriodendron tulipifera*	31.3	Good	3 & 4
110	American sycamore	*Platanus occidentalis*	33.0	Good	4
111	American sycamore	*Platanus occidentalis*	31.1	Fair	4
112	American sycamore	*Platanus occidentalis*	32.9	Good	4
113	tulip poplar	*Liriodendron tulipifera*	39.8	Good	4
114	tulip poplar	*Liriodendron tulipifera*	44.6	Good	4
115	tulip poplar	*Liriodendron tulipifera*	39.0	Poor	4
116	green ash	*Fraxinus pennsylvanica*	35.9	Good	4
117	tulip poplar	*Liriodendron tulipifera*	32.5	Good	4
118	tulip poplar	*Liriodendron tulipifera*	31.5	Fair	4
119	tulip poplar	*Liriodendron tulipifera*	34.0	Fair	4
120	tulip poplar	*Liriodendron tulipifera*	37.0	Fair	4
121	tulip poplar	*Liriodendron tulipifera*	31.0	Good	4
122	tulip poplar	*Liriodendron tulipifera*	36.7	Good	4
123	tulip poplar	*Liriodendron tulipifera*	42.6	Good	4
124	tulip poplar	*Liriodendron tulipifera*	30.5	Good	4
125	American sycamore	*Platanus occidentalis*	58.0	Fair	4
126	American sycamore	*Platanus occidentalis*	31.1	Good	4
127	American sycamore	*Platanus occidentalis*	41.0	Fair	4
128	box elder	*Acer negundo*	33.2	Fair	4
129	eastern cottonwood	*Populus deltoides*	36.0	Fair	4
130	tulip poplar	*Liriodendron tulipifera*	33.4	Good	4
131	tulip poplar	*Liriodendron tulipifera*	35.5	Fair	4
132	black locust	*Robinia pseudoacacia*	31.9	Fair	4
133	black locust	*Robinia pseudoacacia*	30.2	Fair	4
134	black locust	*Robinia pseudoacacia*	37.7	Fair	4
135	slippery elm	*Ulmus rubra*	30.6	Poor	4
136	tulip poplar	*Liriodendron tulipifera*	32.5	Good	4
137	tulip poplar	*Liriodendron tulipifera*	31.7	Fair	4
138	tulip poplar	*Liriodendron tulipifera*	31.9	Good	4 & 5
139	tulip poplar	*Liriodendron tulipifera*	33.0	Good	4 & 5
140	tulip poplar	*Liriodendron tulipifera*	38.6	Good	4 & 5
141	tulip poplar	*Liriodendron tulipifera*	34.7	Good	4 & 5
142	black locust	*Robinia pseudoacacia*	31.5	Fair	5
143	tulip poplar	*Liriodendron tulipifera*	41.6	Good	5
144	tulip poplar	*Liriodendron tulipifera*	36.3	Good	5
145	tulip poplar	*Liriodendron tulipifera*	52.0	Good	5
146	tulip poplar	*Liriodendron tulipifera*	31.8	Good	5
147	tulip poplar	*Liriodendron tulipifera*	30.6	Good	5
148	tulip poplar	*Liriodendron tulipifera*	38.6	Good	5
149	tulip poplar	*Liriodendron tulipifera*	30.5	Good	5
150	tulip poplar	*Liriodendron tulipifera*	36.1	Fair	5
151	tulip poplar	*Liriodendron tulipifera*	35.1	Good	5
152	shingle oak	*Quercus imbricaria*	36.9	Good	5
153	pin oak	*Quercus palustris*	54.2	Fair	5
154	tulip poplar	*Liriodendron tulipifera*	40.1	Poor	5
155	American sycamore	*Platanus occidentalis*	32.5	Poor	5
156	silver maple	*Acer saccharinum*	50.4	Good	6
157	tulip poplar	*Liriodendron tulipifera*	55.0	Good	6
158	black oak	*Quercus velutina*	34.3	Fair	6
159	tulip poplar	*Liriodendron tulipifera*	38.8	Good	6
160	tulip poplar	*Liriodendron tulipifera*	43.5	Fair	6
161	American sycamore	*Platanus occidentalis*	32.2	Fair	6
162	tulip poplar	*Liriodendron tulipifera*	38.7	Poor	6
163	tulip poplar	*Liriodendron tulipifera*	34.6	Poor	6
164	tulip poplar	*Liriodendron tulipifera*	42.0	Fair	6
165	tulip poplar	*Liriodendron tulipifera*	30.9	Fair	6
166	tulip poplar	*Liriodendron tulipifera*	36.5	Fair	6
167	tulip poplar	*Liriodendron tulipifera*	33.0	Poor	6
168	tulip poplar	*Liriodendron tulipifera*	32.5	Poor	6
169	tulip poplar	*Liriodendron tulipifera*	39.0	Good	6
170	tulip poplar	*Liriodendron tulipifera*	34.0	Good	6
171	tulip poplar	*Liriodendron tulipifera*	32.4	Fair	6
172	tulip poplar	*Liriodendron tulipifera*	47.9	Fair	6
173	tulip poplar	*Liriodendron tulipifera*	38.7	Fair	6
174	tulip poplar	*Liriodendron tulipifera*	47.7	Fair	6
175	tulip poplar	*Liriodendron tulipifera*	31.8	Good	6
176	tulip poplar	*Liriodendron tulipifera*	45.8	Fair	6
177	American sycamore	*Platanus occidentalis*	40.5	Fair	6
178	tulip poplar	*Liriodendron tulipifera*	31.8	Good	6
179	tulip poplar	*Liriodendron tulipifera*	33.8	Good	6
180	tulip poplar	*Liriodendron tulipifera*	41.0	Good	6
181	silver maple	*Acer saccharinum*	32.6	Fair	6 & 7
182	tulip poplar	*Liriodendron tulipifera*	37.0	Good	7
183	silver maple	*Acer saccharinum*	42.3	Fair	7
184	tulip poplar	*Liriodendron tulipifera*	33.7	Good	7
185	silver maple	*Acer saccharinum*	32.5	Good	7
186	silver maple	*Acer saccharinum*	33.7	Good	7
187	silver maple	*Acer saccharinum*	36.2	Fair	7
188	silver maple	*Acer saccharinum*	47.1	Poor	7
189	pin oak	*Quercus palustris*	34.6	Good	7
190	green ash	*Fraxinus pennsylvanica*	43.4	Good	7
191	pin oak	*Quercus palustris*	34.5	Good	7
192	pin oak	*Quercus palustris*	31.6	Good	7
193	pin oak	*Quercus palustris*	35.8	Good	8
194	pin oak	*Quercus palustris*	34.8	Good	8
195	pin oak	*Quercus palustris*	32.6	Good	8
196	pin oak	*Quercus palustris*	34.7	Good	8
197	pin oak	*Quercus palustris*	38.2	Good	8
198	pin oak	*Quercus palustris*	36.7	Good	8
199	sweetbay magnolia	*Magnolia virginiana*	40.2	Good	8
200	silver maple	*Acer saccharinum*	32.1	Fair	8
201	silver maple	*Acer saccharinum*	44.3	Fair	8
202	silver maple	*Acer saccharinum*	32.4	Good	8
203	silver maple	*Acer saccharinum*	40.9	Good	8
204	black locust	*Robinia pseudoacacia*	32.0	Good	8
205	cedar	*Cupressaceae* sp.	33.5	Good	8
206	bald cypress	*Taxodium mucronatum*	39.7	Good	8
207	silver maple	*Acer saccharinum*	46.5	Good	8
208	pin oak	*Quercus palustris*	36.6	Good	8 & 9
209	pin oak	*Quercus palustris*	31.4	Good	8 & 9
210	pin oak	*Quercus palustris*	36.1	Good	8 & 9
211	tulip poplar	*Liriodendron tulipifera*	41.0	Good	9
212	pin oak	*Quercus palustris*	33.1	Good	9
213	red maple	*Acer rubrum*	30.2	Good	9
214	tulip poplar	*Liriodendron tulipifera*	36.5	Good	9
215	silver maple	*Acer saccharinum*	41.0	Good	9
216	pin oak	*Quercus palustris*	41.7	Good	9
217	tulip poplar	*Liriodendron tulipifera*	40.0	Good	9
218	silver maple	*Acer saccharinum*	35.5	Fair	9
219	pin oak	*Quercus palustris*	35.7	Good	9
220	willow oak	*Quercus phellos*	38.6	Good	9
221	silver maple	*Acer saccharinum*	32.0	Fair	9
222	southern red oak	*Quercus falcata*	45.0	Good	9
223	shingle oak	*Quercus imbricaria*	32.0	Good	9
224	tulip poplar	*Liriodendron tulipifera*	41.2	Good	9
225	river birch	*Betula nigra*	32.7	Fair	9
226	tulip poplar	*Liriodendron tulipifera*	34.8	Good	9
227	tulip poplar	*Liriodendron tulipifera*	37.6	Good	9
228	tulip poplar	*Liriodendron tulipifera*	33.9	Good	9
229	pin oak	*Quercus palustris*	39.6	Good	9
230	pin oak	*Quercus palustris*	30.0	Good	9
231	pin oak	*Quercus palustris*	37.5	Good	9
232	tulip poplar	*Liriodendron tulipifera*	40.0	Good	10
233	tulip poplar	*Liriodendron tulipifera*	33.8	Fair	10
234	tulip poplar	*Liriodendron tulipifera*	32.8	Fair	10
235	tulip poplar	*Liriodendron tulipifera*	34.0	Good	10 & 11
236	black cherry	*Prunus serotina*	45.1	Fair	11
237	honeylocust	*Gleditsia triacanthos*	33.0/31.0	Poor	11
238	white oak	*Quercus alba*	33.5	Good	10 & 11
239	white oak	*Quercus alba*	32.0	Fair	11
240	pin oak	*Quercus palustris*	35.3	Good	11
241	pin oak	*Quercus palustris*	30.7	Good	11
242	oak sp.	*Quercus* sp.	31.2	Good	11
243	pin oak	*Quercus palustris*	30.0	Fair	12
244	pin oak	*Quercus palustris*	35.0	Fair	12
245	northern red oak	*Quercus rubra*	35.1	Good	14
246	green ash	*Fraxinus pennsylvanica*	34.7	Good	14
247	tulip poplar	*Liriodendron tulipifera*	37.3	Good	14
248	American sycamore	*Platanus occidentalis*	34.8	Fair	14
249	American sycamore	*Platanus occidentalis*	32.5	Fair	14
250	red maple	*Acer rubrum*	31.9	Poor	14
251	American sycamore	*Platanus occidentalis*	36.6	Fair	14
252	willow oak	*Quercus phellos*	33.8	Fair	14
253	willow oak	*Quercus phellos*	33.5	Fair	14
254	willow oak	*Quercus phellos*	32.4	Good	14
255	pin oak	*Quercus palustris*	37.8	Good	14
256	pin oak	*Quercus palustris*	39.6	Good	14
257	pin oak	*Quercus palustris*	36.6	Good	14
258	pin oak	*Quercus palustris*	33.5	Fair	14 & 15
259	pin oak	*Quercus palustris*	31.7	Good	14 & 15
260	pin oak	*Quercus palustris*	39.1	Fair	14 & 15
261	willow oak	*Quercus phellos*	32.0	Good	15
262	willow oak	*Quercus phellos*	31.0	Fair	15
263	northern catalpa	*Catalpa speciosa*	53.5	Good	15
264	bald cypress	*Taxodium mucronatum*	34.6	Good	15
265	pin oak	*Quercus palustris*	32.5	Good	15
266	sweetgum	*Liquidambar styraciflua*	31.9	Good	15
267	willow oak	*Quercus phellos*	30.0	Fair	15
268	sawtooth oak	*Quercus acutissima*	37.2	Good	15 & 16
269	willow oak	*Quercus phellos*	33.2	Good	16
270	willow oak	*Quercus phellos*	33.3	Good	16
271	willow oak	*Quercus phellos*	41.5	Good	16
272	willow oak	*Quercus phellos*	34.9	Good	16
273	willow oak	*Quercus phellos*	39.0	Good	16
274	willow oak	*Quercus phellos*	31.4	Good	16
275	willow oak	*Quercus phellos*	47.4	Good	16
276	willow oak	*Quercus phellos*	38.1	Good	16
277	willow oak	*Quercus phellos*	31.2	Good	16
278	honey locust	*Gleditsia triacanthos*	30.4	Fair	16
279	willow oak	*Quercus phellos*	33.3	Good	16
280	willow oak	*Quercus phellos*	37.0

APPENDIX C

SAMPLE PLOT DATASHEETS

Property: PURPLE LINE — Prepared by: KKT, DMJ

Stand: 1 — Plot: A — Plot size: 1/10th ac — Date: 4/13/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Willow oak										•						1
Black cherry			••													2
Red maple					•	•		•			•					4
Sweetgum			•			••				•						4
S. Red oak							••									2
White pine					•											1
Callery pear*			•													1
Black locust			••													2
Black Gum			•		•											2
Total # of trees per size class	7			6			3			3						19
# and size of standing dead trees	••			•												10

Common Understory Species (3-20')
Common greenbrier, Japanese honeysuckle*, Am. holly, Black gum, Sweet gum, Pignut hickory, Grape spp, Ashe. Arrowood

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	N	Y	Y	80%	40%	10%	10%

Common Herbaceous Species (0-3')
Common greenbrier, Japanese honeysuckle*, Wild onion, Wysteria*, English Ivy*, Vinca Minor*, Poison Ivy, VA Creeper, Callery pear*

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
N	Y	N	Y	Y	80%	150

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100%	Early

Comments (health, structure, habitat, etc.):
much D.W.D. - flat to low slope to road
* Invasive Spp
Forest remnant bordered by road (Ellin Rd) and residential comm.
Poor to Fair quality due to invasive spp. and edge influence

Sheet 1 of 1

Property: PURPLE LINE — Prepared by: KET, DMJ

Stand: 1 — Plot: B — Plot size: 1/10TH AC — Date: 4/13/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
White pine			•		••	••		•								8
Sweetgum			•													1
Black locust		••	••		•											6
S. Red oak										••						2
Callery pear *			•													1
White mulberry *			•													1
N. Red Oak					••											2
Total # of trees per size class	9			9			1			2						21
# and size of standing dead trees																0

Common Understory Species (3-20')
Japanese honeysuckle *
Callery pear *
Black cherry
multiflora rose *
Chestnut oak
Poison ivy
Black Walnut
European privet *
Red cedar
Willow oak
S. red oak
S. catalpa

Common Herbaceous Species (0-3')
Japanese honeysuckle *
English ivy *
Wild onion
Dames rocket *
Poison ivy

% Canopy Closure

C	N	E	S	W	T
Y	N	Y	Y	Y	80

% Invasive Cover

H	U	T
95	75	20

% Understory Cover (3-20')

C	N	E	S	W	T
Y	N	N	N	Y	40

Basal Area in ft^2/acre: 50

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):
* inv. spp.
light gaps
poor quality linear fragment w/ inv. spp. dom. in herb/understory
steep slope from residential to Ellin Rd

Sheet 1 of 1

Property: Purple Line — Prepared by: KKT, DMJ

Stand: 2 — Plot: A — Plot size: 1/10th AC — Date: 4/13/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sweetgum																10
N. Red Oak																5
Blackgum																7
Red maple																6
White oak																3
Mockernut Hickory																2
White Mulberry*																2
Total # of trees per size class	18			12			1			4						35
# and size of standing dead trees																0

Common Understory Species (3-20') European privet*
English ivy* — S. arrowwood
Mockernut hickory — Am. holly — M. Rose*
Black gum — VA creeper — serviceberry
Sweet gum — N. Red oak
Bush honeysuckle* — C. Greenbrier

Common Herbaceous Species (0-3')
English ivy*
Japanese honeysuckle*
Oak seedlings

% Canopy Closure	C	N	E	S	W	T
	Y	y	y	y	y	100

% Invasive Cover	H	U	T
	90	80	10

% Understory Cover (3-20')	C	N	E	S	W	T
	y	y	y	y	y	100

Basal Area in ft^2/acre: 180

% Herbaceous Cover (0-3')	C	N	E	S	W	T
	y	y	y	y	y	100

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):
Poor health due to inv. spp. + edge influence
*inv spp.
flat
fence transects forest fragment along stream + parallel to Ellin Rd.

Sheet 1 of 1

Property: Purple Line — Prepared by: KKT, DMJ

Stand: 2 — Plot: B — Plot size: 1/10th ac — Date: 4/13/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
White Oak						••										2
Black gum			⊠			••										12
Sweet gum			••					•								4
N. Red oak								••								2
Red Maple			••													2
Total # of trees per size class	15			4			3									22
# and size of standing dead trees																20

Common Understory Species (3-20') Flowering Dogwood Redcedar
Highbush blueberry Blackgum
Mountain laurel Am. holly
pignut hickory W. Oak
Sweet bay magnolia E. Cypress
Serviceberry R. Maple
Sweetgum

Common Herbaceous Species (0-3')
lowbush blueberry
Black gum

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	0	0	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
Y	Y	Y	Y	N	80	110

% Herbaceous Cover (0-3')						Plot Successional Stage: early
C	N	E	S	W	T	
N	Y	Y	N	N	20	

Comments (health, structure, habitat, etc.): Good quality, sparse herbaceous, no invasives, gorgeous, gentle, peaceful slope to stream/Ellin Rd

Sheet __ of __

Property: Purple Line Prepared by: KKT, DMI

Stand: 3 Plot: A Plot size: 1/10th ac Date: 4/12/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Eastern Cottonwood																6
Box elder																2
Sycamore																6
Am. elm																2
Black cherry																—
White mulberry																4
Blackberry																1
Total # of trees per size class	7			9			3			2						21
# and size of standing dead trees																

Common Understory Species (3-20')
Exotic bush honeysuckle*
Poison ivy
Multiflora rose*
Grape sp.
Am. Elm
Black cherry
White mulberry*
E. Cottonwood
Box Elder

% Canopy Closure						
C	N	E	S	W	T
y	y	y	y	y	100

% Invasive Cover		
H	U	T
90	80	0

% Understory Cover (3-20')					
C	N	E	S	W	T
y	y	y	y	y	100

Basal Area in ft^2/acre: 140

Common Herbaceous Species (0-3')
Japanese honeysuckle*
multiflora rose*
Wild cucumber
English ivy*

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
y	y	y	y	y	100

Plot Successional Stage: early

Comments (health, structure, habitat, etc.):
Poor structure due to inv. spp.
much standing & downed woody debris
dumping evident
hummocky topography due to past disturbance

Sheet __ of __

Property: Pipeline — Prepared by: KKT DMD

Stand: 3 — Plot: B — Plot size: 1/10 acre — Date: 9-13-10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
White Pine																3
Black Locust																21
Red Cedar																2
White Ash																3
Blk Cherry																1
Catalpa (Catalpa)																1
Eastern Red Cedar																1
Tulip Poplar																4
Red Maple																1
Total # of trees per size class	9			26			2									37
# and size of standing dead trees																

Common Understory Species (3-20')

Rosa multiflora, Rhamnus frangula, Acer rubrum, Lonicera tatarica, -grape spp, -blk cherry

% Canopy Closure

C	N	E	S	W	T
y	y	y	y	y	100

% Invasive Cover

H	U	T
90	90	10

% Understory Cover (3-20')

C	N	E	S	W	T
N	y	y	y	y	80

Basal Area in ft²/acre: 90

Common Herbaceous Species (0-3')

Toxicodendron radicans, Rubus spp, Grape spp, Parthenocissus quinquefolia

% Herbaceous Cover (0-3')

C	N	E	S	W	T
y	y	y	y	y	100

Plot Successional Stage: Climax

Comments (health, structure, habitat, etc.):

Poor quality mid-upper edge dist. Steep ravine in center of stand. Much downed debris

Property: Purple Line — Prepared by: KKT, DMT

Stand: 4 — Plot: A — Plot size: 1/10 ac — Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
N. Red Oak			•		•			••								4
White oak			•			••	•	•								5
Hickory Pignut						•										1
Black Gum			•													1
Total # of trees per size class	3			4			4									11
# and size of standing dead trees	•															0

Common Understory Species (3-20'): Black cherry, Black gum, Striped maple, Red maple, Mtn. laurel, Common greenbrier, Saplings – Red oak, white oak, hickory, willow oak, lowbush blueberry, azalea, Japanese barberry, Sweet gum, English ivy*, VA creeper, poison ivy

Common Herbaceous Species (0-3'): Sedge sp., English ivy*, lowbush blueberry, Japanese barberry

% Canopy Closure						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

% Invasive Cover		
H	U	T
10	10	0

% Understory Cover (3-20')					
C	N	E	S	W	T
N	Y	Y	Y	Y	80

Basal Area in ft²/acre: 100

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	N	80

Plot Successional Stage: early-mid

Comments (health, structure, habitat, etc.):

* inv. spp.
Good to fair quality – invasive spp beginning to invade
Gentle slope to small stream South of plot (parallel to Ellin Rd)
North edge of plot near walking trail

Sheet 1 of 1

Property: Purple Line | Prepared by: KKT, DMJ

Stand: 4 | Plot: B | Plot size: 1/10th c | Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
N. Red oak					•		•									2
Sweetgum			•• ••		•	••		•								8
Red maple			• • •			X										8
White oak			•													1
Willow oak						•		•								2
Black gum			•• ••													4
Tulip poplar										•						1
Am Elm						•										1
Total # of trees per size class	12			11			3			1						27
# and size of standing dead trees	•			••												

Common Understory Species (3-20')
Japanese honeysuckle*
English ivy*
Black gum
Sweetgum
Pignut hickory
black cherry
red maple
White oak
Common greenbrier
S. arrowwood
M. rose* poison ivy
Wildroses

Common Herbaceous Species (0-3')
Japanese honeysuckle *
English ivy *
Poison ivy
Common greenbrier
VA creeper

% Canopy Closure	C	N	E	S	W	T
	Y	Y	Y	Y	Y	100

% Invasive Cover	H	U	T
	90	80	30

% Understory Cover (3-20')	C	N	E	S	W	T
	Y	N	Y	Y	Y	80

Basal Area in ft²/acre: 110

% Herbaceous Cover (0-3')	C	N	E	S	W	T
	Y	Y	Y	Y	Y	100

Plot Successional Stage: early-mid

Comments (health, structure, habitat, etc.):
*invasive spp.
Poor quality due to severe infestation of invasive vine spp. (vining into canopy)
flat to low slope
Stream to S, trail and residences to N

Sheet 1 of 1

Property: Purple Line | Prepared by: KLT, DMJ

Stand: 5 | Plot: A | Plot size: 1/10th ac | Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
American Sycamore																1
Sweetgum			••		••											6
Red maple			••		•											6
Eastern Cottonwood					•											1
Box Elder			••													3
Blk Locust				•	•		•									3
American Elm			••		••											6
Total # of trees per size class	13			11			2									26
# and size of standing dead trees																

Common Understory Species (3-20') White oak, Crataegus

Blk locust, Sweetgum, Am. elm, N. red oak, Multiflora rose*, Blk cherry, Red cedar, Grape spp, Poison ivy, Flng dogwood

Common Herbaceous Species (0-3')

English ivy*, Raspberry sp., Creeping euonymus*, Wild onion, Japanese honeysuckle*, Poison ivy, VA creeper

% Canopy Closure							% Invasive Cover		
C	N	E	S	W	T		H	U	T
Y	Y	Y	Y	N	80		80	50	0

% Understory Cover (3-20')						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

% Herbaceous Cover (0-3')						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

Basal Area in ft²/acre: 110

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):

* inv. spp.
Poor quality due to invasive spp and dumped debris
At corner of MD 450 + MD 410
Small stream at E edge
General sloping to E; mounds evidence of human disturbance to topography

Sheet 1 of 1

Property: Purple Line — Prepared by: KKT, AMJ

Stand: 5 — Plot: B — Plot size: 1/10th ac — Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sweetgum			⊠	••	⁘	•										18
Tree-of-heaven *		⁘ 5	⊠ 17	••	••											29
Black locust		•	•	•												3
Red maple *			••	•												5
Black cherry					•											1
Total # of trees per size class	38			18												56
# and size of standing dead trees																

Common Understory Species (3-20')

VA creeper
Japanese honeysuckle *
Poison ivy
Am. elm
Blk cherry
Red Cedar
Willow oak
Crabapple
Sweetgum
Tree-of-hvn
Creeping Elm

Common Herbaceous Species (0-3')

Japanese honeysuckle *
Poison ivy
English ivy

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	95	70	50

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	140

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	Early

Comments (health, structure, habitat, etc.):

* inv. spp
Poor quality forest fragment - invasive spp in all strata, much dumped construction debris (significant disturbance)
Between MD 410 grassy slope and residences
flat topo with mounds of dumped concrete

Sheet 1 of 1

Property: Purple Line — Prepared by: KRT, DMJ

Stand: 6 — Plot: A — Plot size: 1/10th ac — Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Red maple			12													13
N. red oak																–
American elm			••													2
Sweetgum			••		•	••	••									10
Blk walnut					•											1
Tulip poplar			••													2
VA pine			8	•		•										10
White Oak			7													7
Blk gum			12													12
Total # of trees per size class	47			6			3			1						57
# and size of standing dead trees				••												20

Common Understory Species (3-20')

Common greenbrier, Possumhaw sp., Multiflora rose *, Japanese honey., Willow oak, Blk cherry, American holly, VA pine, S. arrowwood, Grape sp.

Common Herbaceous Species (0-3')

Poison ivy, Japanese honeysuckle *

% Canopy Closure						
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover		
H	U	T
40	20	0

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 70

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	N	N	Y	60

Plot Successional Stage: Early-mid

Comments (health, structure, habitat, etc.):

Fair quality - invasive spp. present
*inv. spp.
gentle slope to culvert drainage
Between MNCPPC maint. fac. and access road

Sheet __ of __

Property: Purple Line | Prepared by: KET, DMJ

Stand: 6 | Plot: B | Plot size: 1/10th ac | Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
VA pine					•		••									3
Willow oak			•			••										3
Sweetgum			X													6
Red maple			••		•	••										5
N. red oak								•								1
White oak			••													2
Blk gum						•										1
S red oak						•										1
Total # of trees per size class	11			8			3									22
# and size of standing dead trees				••												20

Common Understory Species (3-20') (also Arrowwood)

lowbush blueberry, Common greenbrier, White oak, Red maple, Blk cherry, Am. holly, Sweetgum, Shu red oak, tuliptpoplar, multiflora rose

Common Herbaceous Species (0-3')

lowbush blueberry, Sedge sp., Lady's slipper orchid, Poison ivy

% Canopy Closure						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

% Invasive Cover		
H	U	T
0	10	0

% Understory Cover (3-20')						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

Basal Area in ft²/acre: 70

% Herbaceous Cover (0-3')						
C	N	E	S	W	T	
N	N	N	Y	Y	20	

Plot Successional Stage: Early-mid

Comments (health, structure, habitat, etc.):

Good quality forest – low inv. spp.

Downed woody debris

Sheet __ of __

Property: Purple Line | Prepared by: KKT, DMJ

Stand: 7 | Plot: A | Plot size: 1/10th ac | Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black gum			8													10
VA pine					5											8
N. red oak																3
Chestnut oak			5													7
White oak																5
Sweet gum																1
Total # of trees per size class	21			13												34
# and size of standing dead trees																

Common Understory Species (3-20')
Chestnut oak, BlK gum
lowbush blueberry, azalea
Am. holly
Mtn. laurel
Pignut hickory

Common Herbaceous Species (0-3')
Chestnut oak
lowbush blueberry
BlK gum

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
4	4	4	4	4	100	0	0	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
4	4	N	4	4	80	110

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
N	4	N	N	N	20	early - mid

Comments (health, structure, habitat, etc.):
Good quality - no inv. sp.
Some dumped debris
Gentle slope to MD 410 from MNCPPC maint. bar./access road

Sheet __ of __

Property: Purple Line | Prepared by: KKT, DMJ

Stand: 7 | Plot: B | Plot size: 1/10 ac | Date: 4/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
VA pine		4	⊠ •		::	•										25
Blackgum			••		•											3
Chestnut Oak			•													1
Tulip Poplar				•												1
N. Red Oak			•													1
Willow Oak			::													3
Sweetgum			•		•											2
White Oak			⊠		•											11
S. Red Oak			•													1
Red maple			•		::											4
Total # of trees per size class	39			12			1									52
# and size of standing dead trees				••												20

Common Understory Species (3-20')

Blackgum, White Oak, Common greenbrier, Red maple, Sth. arrowwood, Highbush blueberry, Am. Holly, red cedar, Mtn. Laurel, Willow Oak, Black Cherry

Common Herbaceous Species (0-3')

Bracken fern, VA creeper, Blackgum, Polygonum sp.

% Canopy Closure						
C	N	E	S	W	T	
4	4	4	4	4	100	

% Invasive Cover		
H	U	T
0	0	0

% Understory Cover (3-20')						
C	N	E	S	W	T	
4	4	N	4	4	80	

Basal Area in ft²/acre: 90

% Herbaceous Cover (0-3')						
C	N	E	S	W	T	
4	N	4	N	4	60	

Plot Successional Stage: early - mid

Comments (health, structure, habitat, topography, etc.):

good / fair - edge influence
slope to pond
DWD

Sheet __ of __

Property: Purple Line Prepared By KKT, LT

Stand #: 8 Plot #: A Plot Size: 1/10th ac Date: 4/21/10

Basal Area in sf/acre: 140

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Passon	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Willow oak							•									1
Sweetgum			•	•	•	• •										8
Callery pear*					••											2
Slippery Elm	•					•										1
Red maple			••		•	••										8
VA Pine						••	••									5
Chestnut oak			•													1
Total Number of Trees per Size Class	4			19			3									26
Number & Size of Standing Dead Trees	• •			•												30/ac

List of Common Understory Species 3'-20'
White oak
Common greenbrier
Poison ivy
English ivy*
Red cedar
Multif. rose*
Am. holly
S. arrowwood

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers)

Plot Successional Stage: Early

List of Herbaceous Species 0'-3'
Japanese honeysuckle*
English ivy*
Common greenbrier
VA creeper
Wild onion

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

T	U	H
5	50	95

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
* inv. spp.
Poor quality linear fragment – dominated w/ invas
Sheet 1 of 1 . gentle slope

Forest Sampling Data Worksheet C:1

→ Willow oak Common hackberry
Grape sp. highbush blueberry C - 2
Cherry sp. black cherry
Exotic Bush Honeysuckle

Property: Purple Line Prepared By KKT, LT

Stand #: 8 Plot #: B Plot Size: 1/10th ac Date: 4/21/10

Basal Area in sf/acre: 130

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
VA pine																16
Sweetgum																1
Willow oak																4
Red maple																6
Total Number of Trees per Size Class	10			8			3									21
Number & Size of Standing Dead Trees																10

List of Common Understory Species 3'-20'

Com. greenbrier, White oak, Sweetgum, Eng. ivy K, Red maple, Slip. elm, Red bud, Grape sp., Poison ivy

% of Canopy Closure	C	N	E	S	W	Total
	Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers)

T	U	H
0	10	80

Plot Successional Stage: Early

List of Herbaceous Species 0'-3'

Eng ivy K, C. greenbrier, Japanese ivy K, Poison ivy

% Understory Cover 3'-20'	C	N	E	S	W	Total
	N	Y	Y	Y	Y	80

% of Herbaceous Cover 0'-3'	C	N	E	S	W	Total
	Y	Y	Y	Y	Y	100

Comments: * inv spp. Poor qual - inv. sp. Gentle slope. Linear fragment

Sheet 1 of 1

Forest Sampling Data Worksheet C:1

Property: Purple Lilac Prepared By KKT, LT

Stand #: 9 Plot #: A Plot Size: 1/10 ac Date: 4/21/10

Basal Area in sf/acre: 220

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar																5
Red maple																6
Sweetgum																9
VA pine																1
N. red oak																1
Swamp chestnut oak																2
Total Number of Trees per Size Class	7			10			5			2						24
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20'

Am holly, Japan honeysuckle, N. red oak, Common asterbean, S. arrowwood, Highbush blueberry, Multiflora rose

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers)

T	U	H
0	20	50

Plot Successional Stage: Early-mid

List of Herbaceous Species 0'-3'

Japan honeysuckle, Christmas fern, Poison ivy, greenbrier sp., Spice bush, S. arrowwood, Blackberry, Bull nettle, VA creeper

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	N	N	60

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments

*viv spp

Sheet 1 of 1

Forest Sampling Data Worksheet C:1

Y yellow oak

Property: Maple Line Prepared By YT, LT

Stand #: 9 Plot #: B Plot Size: 1/10th ac Date: 4/21/10

Basal Area in sf/acre: 170

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
red pine																5
hemlock																21
red maple																7
yellow birch																3
white oak																1
black cherry																3
Total Number of Trees per Size Class	27			9			3			1						40
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20'

2 maple-leaf viburnum* sweetgum oak sp.
C. canadensis boxwood red maple
witch hazel

List of Herbaceous Species 0'-3'

Partridge berry* Fern sp.
Aster sp.
Sarsaparilla
Poison ivy

% of Canopy Closure	C	N	E	S	W	Total
	Y	Y	Y	Y	Y	100

% Understory Cover 3'-20'	C	N	E	S	W	Total
	N	Y	Y	Y	Y	50

% of Herbaceous Cover 0'-3'	C	N	E	S	W	Total
	Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 0 30 90

Plot Successional Stage: Early

Comments * Inv. sp.
Fair - poor - mix spp. age
flat

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Love Prepared By LT, KT

Stand #: 10 Plot #: A Plot Size: 0.1 Ac. Date: 4/29/10

Basal Area in sf/acre: 180

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Chestnut -, oak			X		1	2	2	1		2						15
Black gum			XX			1		1								21
N. Red oak										1						1
White oak								1								1
Sassafras			1													1
Red maple			1			1										2
Total Number of Trees per Size Class	27			6			5			3						41
Number & Size of Standing Dead Trees	2															

List of Common Understory Species 3'-20'

Red maple Mt. Laurel
Viburnum dentatum
Black gum

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers)

C U H

Plot Successional Stage: mid

List of Herbaceous Species 0'-3'

Chestnut oak Mt. Laurel
Greenbrier* Viburnum d.
A. holly Serviceberry
Lowbush blueberry N. Red oak
Black gum B. Cherry

% Understory Cover 3'-20'

C	N	E	S	W	Total	C	U	H
N	Y	Y	N	Y	60	0	10	10

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments

* invasive spp.
Slope to NE to stream ravine
Good quality – inv. at edge near road

Sheet __ of __

Forest Sampling Data Worksheet C:1

→ poison ivy
jap. honeysuckle*

poison ivy as "invasive"?
greenbrier

Property: Poole Line Prepared By: LT, KT

Stand #: 10 Plot #: B Plot Size: 0.1 Ac Date: 4/29/10

Basal Area in sf/acre: 140

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Chestnut oak			•				••	•		••	•					7
Red maple			•			•		•								3
Muscle wood			••													2
Black gum			••			•		•								4
Sweet gum			••			•		•								7
Sweetbay Mag			•													1
Total Number of Trees per Size Class	12			3			6			3						24
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20'

A. holly Black gum
Sweet gum Mt. laurel
Sweetbay magnolia

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers)

C	V	H
0	0	0

Plot Successional Stage: mid

List of Herbaceous Species 0'-3'

Cinnamon fern Partridge berry
Chestnut oak Black gum
New York fern Am. holly
Lowbush blueberry Mtn. laurel
Oak seedlings Com. greenbr

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	N	Y	Y	80

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	N	80

Comments: Good quality - no invasives
Slope to stream along NE edge of plot

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Lane Prepared By: LT + KT

Stand #: 11 Plot #: A Plot Size: 0.1 ac Date: 4/29/10

Basal Area in sf/acre: 170

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Green ash				•												1
White oak					•											1
Red maple		•	::	::												10
Norway m.*			•													1
Black cherry		•	::	•	••					•						8
Blk gum			•													1
Sweet gum		•	••	:•	••											8
Black locust	••	••	••	::												11
Red cedar			••													2
Total Number of Trees per Size Class	24			18						1						43
Number & Size of Standing Dead Trees	•• ••			•												10

List of Common Understory Species 3'-20'
Privet* Norway maple* Winged euon.*
R. maple N. Red oak
Poison ivy Multiflora rose*

% of Canopy Closure						
C	N	E	S	W	Total
Y	Y	N	Y	Y	80

Percent of Invasive Cover per Plot (All Layers)

C	U	H
5	80	95

Plot Successional Stage: early

List of Herbaceous Species 0'-3'
jap. honeysuckle* Winged euonymus*
Poison ivy
VA creeper
Rubus sp.
Norway maple*
Wild onion

% Understory Cover 3'-20'						
C	N	E	S	W	Total
Y	Y	N	Y	Y	80

% of Herbaceous Cover 0'-3'						
C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
* inv. spp.
Poor quality forest fragment - inv. spp. dominate herb + understory
steep slope down to road to W; slope down to apts to SE
~~Sheet ___ of ___~~
general note re: Stand 11: weedy edge spp with areas of broken canopy

Forest Sampling Data Worksheet C:1

Property: Purple Wave Prepared By LT KT

Stand #: 11 Plot #: B Plot Size: 0.1 ac Date: 4/29/10

Basal Area in sf/acre: 80

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust		4	5		5	2										24
Red maple			4													4
Sweet gum			1													1
Black cherry			1	1												2
Sassafras			1													1
Total Number of Trees per Size Class	21			11												32
Number & Size of Standing Dead Trees	2															

List of Common Understory Species 3'-20'

Sweet gum, Black cherry, Poison ivy, Tulip poplar, Multiflora rose

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers)

C	U	I+
10	20	100

Plot Successional Stage: Early

List of Herbaceous Species 0'-3'

Common chickweed, Multiflora*, Jap. honeysuckle*, Poison ivy, wild onion, Rubus sp., Cleavers, Grass sp., Norway maple*

% Understory Cover 3'-20'

C	N	E	S	W	Total
N	Y	N	N	Y	40

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments: Poor quality, hillside slope, several cut stems 100% Jap. honeysuckle herb. cover

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Line | Prepared by: KT, DJ

Stand: 12 | Plot: A | Plot size: 1/10th Ac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust		⊠ ∴	∴	•	••											21
Tree-of-heaven *		••	⁘													2
Slippery Elm			••		•											3
Red Maple		•	••													3
Total # of trees per size class	25			4												29
# and size of standing dead trees																

Common Understory Species (3-20')

Black locust, Exotic bush honeysuckle, Black cherry, Multiflora rose*, winged sumac, Raspberry sp., Poison ivy, VA creeper, Green ash, Maple leaf oak, Callery pear*, Cherry spp.

Common Herbaceous Species (0-3')

Raspberry sp., Common milkweed, Japanese honeysuckle*, Grass sp, Goldenrod sp., Poison ivy

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	N	N	Y	Y	60	50	25	10

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 60

Plot Successional Stage: early

Comments (health, structure, habitat, etc.):

* invasive spp.

Poor quality due to edge influence and invasive spp. (dominating herbaceous layer

Riprap drainage upslope from road

Steep slope down to road (ran during embankment

Sheet 1 of 1

Property: Purple Line | Prepared by: KT, DJ

Stand: 12 | Plot: B | Plot size: 1/10th AC | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar	•	••	•	•												5
Black locust		X		••		•										10
Black cherry		•	••													3
Red maple		••	•		•											5
Black gum			••													2
Slippery elm				•												1
Sweetgum		•														1
White mulberry		••														2
Cherry sp		•														1
Am. Sycamore	•															1
Total # of trees per size class	25			6												31
# and size of standing dead trees																

Common Understory Species (3-20')
Raspberry sp.
Multiflora rose*
Sweetgum
N. red oak
Southern arrowwood
Callery pear*
Winged sumac
Red maple
Poison ivy

Common Herbaceous Species (0-3')
Raspberry sp.
Japanese honeysuckle*
Multiflora rose*
Goldenrod sp.
poisonivy

% Canopy Closure

C	N	E	S	W	T
Y	Y	N	Y	Y	100

% Invasive Cover

H	U	T
40	20	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 50

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):
*inv. spp.
Poor quality forest fragment - inv. spp and edge influence
steep roadway embankment w/ drainage (riprap) channel at top of slope
Forest stand very young and patchy

Sheet 1 of 1

Property: Purple Line | Prepared by: KT, DJ

Stand: 13 | Plot: A | Plot size: 1/10th Ac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar		••	•	•												5
Red maple		•••			•											5
Black locust		••	••	••	••											9
Sweetgum		•	••													3
Spruce sp.		•		•												2
Am. Sycamore		•														1
Winged Sumac		••														3
Black gum		••	•													3
Total # of trees per size class	24			7												31
# and size of standing dead trees																

Common Understory Species (3-20')

Black locust, Am. holly, Callery pear *, Sweetgum, Japan. honey. *, Red maple, exotic bush honeysuckle *, multiflor rose *, Boxelder spp, winged sumac

Common Herbaceous Species (0-3')

Japanese honeysuckle *, Grass sp., Poison ivy, VA creeper, European bittersweet *, Korean clover *, dogbane, smile-a-minute

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	60	20	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
N	Y	N	Y	Y	60	60

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	Early

Comments (health, structure, habitat, etc.):

*inv. spp.

Poor quality - edge / invasive influence

drainage / riprap at top of slope; steep roadway embankment

patchy young forest

Sheet 1 of 1

Property: Purple Line — Prepared by: KT, DJ

Stand: 13 — Plot: B — Plot size: 1/10th Ac — Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Calleny pear *					•											1
Black locust	•	⊠		•												13
Sweetgum			•	•												2
Big tooth aspen		•			•											2
VA pine		••														3
Red maple		••														4
Tulip poplar				•												1
Total # of trees per size class	21			5												26
# and size of standing dead trees																

Common Understory Species (3-20')

Multiflora rose *
Elderberry
Calleny pear *
Japanese honeysuckle *
Rasp spp
exotic roundleaf bush *
Euro bittersweet *
red maple
blackcherry
winged sumac
Euro privet *
sweetgum

Common Herbaceous Species (0-3')

grass spp
Japanese honeysuckle *
ephemeral spp
rasp spp
violet spp
poisonivy

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
4	N	4	4	4	80	90	60	20

% Understory Cover (3-20')					
C	N	E	S	W	T
4	4	4	4	4	100

Basal Area in ft^2/acre: 60

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
4	4	4	4	4	100

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):

* invasive spp

Sheet __ of __

Property: Purple Line | Prepared by: KT, DJ

Stand: 14 | Plot: A | Plot size: 1/10th ac. | Date: 5/14/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust		⊠••			•											13
Redbud			••													2
Box elder			••													4
Black Walnut		•														1
sassafrass			•													1
Slippery Elm				••												3
Tree of Heaven		•														1
Black Cherry			•													1
Total # of trees per size class	22			4												26
# and size of standing dead trees																

Common Understory Species (3-20')
Grape vine sp.
Box elder
Ex. bush honeysuckle*
Redbud
Multiflora rose*
English ivy*
Bamboo*
Winged sumac
callery pear*

Common Herbaceous Species (0-3')
garlic mustard*
curly dock
VA creeper
Raspberry sp.
Sedge sp.
Grass sp.
dandelion

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	60	20	20

% Understory Cover (3-20')					
C	N	E	S	W	T
N	N	Y	Y	Y	60

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 30

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):
* inv. spp.
Poor quality - inv. spp. / edge influence
Plot abuts bamboo / english ivy thicket
Steep roadway embankment

Sheet 1 of 1

Property: Purple Line | Prepared by: KT, DJ

Stand: 14 | Plot: B | Plot size: 1/10th Ac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust		⊠••			••											16
Red maple		••			••											5
Loblolly Pine		••														2
Tree of heaven		•														1
Total # of trees per size class	18			6												24
# and size of standing dead trees																

Common Understory Species (3-20')

Norway maple* | Box elder
Black locust | Raspberry sp.
Pine | sweetgum
Black cherry
Grape sp.

Common Herbaceous Species (0-3')

Raspberry sp. | Japan. honey. *
Goldenrod sp. | VA creeper
Garlic mustard * | Vetch spp*
Dandelion
Mustard sp.

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	N	80	20	20	20

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 30

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):

* inv. spp.
(see notes - Plot 14 A)

Sheet __ of __

Property: Purple Line | Prepared by: KT, DJ

Stand: 15 | Plot: A | Plot size: 1/10th ac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sweetgum			••		••											4
Eastern cottonwood								•		•						2
Slippery elm					•	••	•	•								5
Black locust			•													1
Red maple			•		•											2
Silver maple			•		•											2
Total # of trees per size class	5			7			3			1						16
# and size of standing dead trees																

Common Understory Species (3-20')

Exotic bush honeysuckle* | Eur. bittersw.* | VA creeper | Eng. ivy* | Grape sp. | green ash | tree of heaven | Poisonivy

N. red oak

Multiflora rose*

Willow oak

Silver maple

Common Herbaceous Species (0-3')

garlic mustard*

Raspberry sp.

English ivy*

Japanese honeysuckle*

Goldenrod

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	N	80	60	70	0

% Understory Cover (3-20')					
C	N	E	S	W	T
N	Y	Y	Y	Y	80

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
N	Y	Y	Y	Y	80

Basal Area in ft²/acre: 60

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):

*inv. spp.

Poor quality - dom by inv. herb. + understory

Debris-ridden drainage swale / concave landform

Canopy gaps

Sheet 1 of 1

Property: Purple Line | Prepared by: KT, DJ

Stand: 15 | Plot: B | Plot size: 1/10th ac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Red maple		••	☒		•		•									17
Slippery elm			••		•		••	•								7
Sweetgum					•											1
green ash		•	☒••				•									15
Box elder			•													1
Total # of trees per size class	32			4			5									41
# and size of standing dead trees	••															

Common Understory Species (3-20') Black cherry multiflora rose
green ash
Silver maple
Slippery elm
Boxelder

Common Herbaceous Species (0-3') VA creeper
Japanese honeysuckle*
Garlic mustard*
Green ash
Grass sp.
Poison ivy

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	30	10	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	90
Y	Y	Y	Y	Y	100	

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	early
N	N	Y	Y	Y	60	

Comments (health, structure, habitat, etc.):
* inv. spp.
downed woody debris / dumped debris / edge influence
Fair quality - few inv. spp.
Forested wetland w/ sparse herbaceous layer

Sheet 1 of 1

Property: Purple Line | Prepared by: KT, DJ

Stand: 16 | Plot: A | Plot size: 1/10-thac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust		X	X		X	X										22
E. cottonwood					X											1
Callery pear*			X													2
Slippery elm			X		X											12
Black Willow			X													1
Black Cherry			X													1
Total # of trees per size class	25			14												39
# and size of standing dead trees																—

Common Understory Species (3-20')

Poison ivy
Red cedar
Blk locust
Ex. bush honeysuckle*
Slippery elm
Willow oak
Blk cherry
Crabapple
Multiflora rose*
Persimmon
Nannyberry

Common Herbaceous Species (0-3')

Poison ivy
Garlic mustard*
Wild onion
Raspberry sp.
grass sp.

% Canopy Closure							% Invasive Cover		
C	N	E	S	W	T		H	U	T
Y	N	Y	Y	Y	80		60	40	10

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	140

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	Early

Comments (health, structure, habitat, etc.):

* inv. spp
Poor quality - inv. spp./edge influence
Drainage swale/concave perpendicular to MD 410

Sheet __ of __

Property: Purple Line | Prepared by: KT, DJ

Stand: 16 | Plot: B | Plot size: 1/10th ac | Date: 5/4/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Red maple			8													8
Sweetgum																2
Tulip poplar																2
Willow oak																1
Slippery Elm																1
Box Elder																1
Total # of trees per size class	8			2			3			2						15
# and size of standing dead trees																20

Common Understory Species (3-20') cherry spp

Poison ivy, Blk cherry, Sweetgum, Multiflora rose*, Flowering dogwood, Slippery elm, common greenbrier, red mulberry, Winged euonymus

% Canopy Closure						
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover		
H	U	T
80	20	0

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 80

Common Herbaceous Species (0-3')

Poison ivy, Japan. honey*, garlic mustard*, VA creeper, Raspberry sp.

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: Early-mid

Comments (health, structure, habitat, etc.):

*inv. spp.

Poor quality- inv. spp dominate herbaceous / edge spp. (Fair)

Fenced area to N

Flat topog.

Sheet __ of __

Property: Pipeline | Prepared by: LT + DMY

Stand: 17 | Plot: A | Plot size: 1/10 acre | Date: 5/7/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Chestnut oak			•													1
Black gum		•	⊠			•		•								13
Sweet gum		•	⊠					•								12
Tulip poplar							•									1
Red maple		•	⅞													6
pin oak							⅞	•	•							7
Musclewood			•													1
Nthn Red oak							•									1
Willow oak								•								1
Total # of trees per size class	30			1			12									43
# and size of standing dead trees	•						•									10

Common Understory Species (3-20') sassafras
tulip poplar, Am holly, Pawpaw
red maple, Viburnum
Chestnut oak
black gum, bush honeysuckle, Poison ivy

% Canopy Closure					
C	N	E	S	W	T
4	4	4	4	4	100

% Invasive Cover (exotic (poison ivy) & bush honeysuckle)		
H	U	T
15	15	0

% Understory Cover (3-20')					
C	N	E	S	W	T
4	4	4	4	4	100

Basal Area in ft^2/acre: 130

Common Herbaceous Species (0-3') tomboish blueberry
VACCOOP
Poison ivy
Sassafras
Viburnum
Common greenbrier
red maple

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
4	4	4	4	4	100

Plot Successional Stage: Early - mid

Comments (health, structure, habitat, etc.):
healthy mix leaflitter, some downed deadwood, very little invasive spp in understory
negligible amounts of debris, poison ivy heavy around perimeter
Quite pleasant actually
*kinda some exotics
2 pictures

Sheet __ of __

Property: Purpleline | Prepared by: LT + DMB

Stand: 17 | Plot: 3 | Plot size: 1/10 acre | Date: 5/7/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
chestnut oak			•							•						2
sweet gum			•													1
Pin oak							••			•						5
black gum			•													1
sassafrass			•													1
Total # of trees per size class	4			—			4			2						10
# and size of standing dead trees							•									10

Common Understory Species (3-20')

sassafrass, low bush blueberry, red maple, greenbriar, black gum, American holly, chestnut oak, high bush blueberry, black cherry, willow oak, Red cedar

Common Herbaceous Species (0-3')

greenbriar, low bush blueberry, black cherry, sassafrass

% Canopy Closure

C	N	E	S	W	T
4	4	4	4	4	100

% Understory Cover (3-20')

C	N	E	S	W	T
4	4	4	4	4	100

% Herbaceous Cover (0-3')

C	N	E	S	W	T
4	4	4	4	4	100

% Invasive Cover (generators)

H	U	T
15	15	0

Basal Area in ft^2/acre: 70

Plot Successional Stage: Early to mid

Comments (health, structure, habitat, etc.):

Healthy forest stand. See comments 178

Understory dominated by chestnut oak & sassafrass

Herbaceous dominated by low bush blueberry

Sheet __ of __

Property: Purple Line | Prepared by: LT, DJ

Stand: 18 | Plot: A | Plot size: 1/10 ac | Date: 5/7/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
American elm		••	X	••	••	•										16
Willow oak										•						1
American basswood					•											1
Sassafras			•													1
Kentucky Coffeetree				••	••	•										5
Sweet gum								•								1
Total # of trees per size class	10			13			1			1						25
# and size of standing dead trees	••															0

Common Understory Species (3-20')

Sassafras, VA creeper, Poisonivy, greenbrier, tearthumb*, grape spp

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
100	80	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 50

Common Herbaceous Species (0-3')

Lesser periwinkle*, Poisonivy, Mile-a-min.*, VA creeper, greenbrier, Rubus spp, cleavers, Japanese honeysuckle*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	N	Y	80

Plot Successional Stage: early to mid

Comments (health, structure, habitat, etc.):

herbaceous dominated by greenbrier & "groundflox" - allmost 100%

Greenbrier in tree layer - acting as invasive

Very poor quality

Greenbrier and "groundflox" acting as invasive in herbaceous layer

2 photos on site. third photo of 'coffee tree' with groundflox in background, 4th (last purple photo) unknown tree (princess tree?)

Sheet __ of __

Property: Purple Lane | Prepared by: LT DS

Stand: 18 | Plot: B | Plot size: 1/10 ac | Date: 5/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar								•		•						2
American elm		••	⊠		••	•	••									16
Red maple			••			•	•									4
Sweetgum						•										1
Total # of trees per size class	13			5			4			1						23
# and size of standing dead trees	••															0

Common Understory Species (3-20')

Multiflora — Red maple
Fox grape — Willow oak
VA creeper — Sweet gum
jap. honeysuckle* — Poison ivy

Common Herbaceous Species (0-3')

jap. honeysuckle* — Sweet gum
clover — garlic mustard*
Rubus sp.
poison ivy
VA creeper
Multiflora*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
4	4	N	4	4	80	95	80	5

% Understory Cover (3-20')					
C	N	E	S	W	T
4	4	4	4	4	100

Basal Area in ft^2/acre: 40

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
4	4	4	4	4	100

Plot Successional Stage: early - mid

Comments (health, structure, habitat, etc.):

Poor health, almost 100% inv. herbaceous cover - jap. honeysuckle
2 photos

Sheet __ of __

Property: PurpleLine | Prepared by: LT DJ

Stand: 19 | Plot: A | Plot size: 1/10 ac | Date: 5-7-10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar							8			••						11
Red maple			•		•	••		••								7
Sweet gum			•													1
Mulberry			•													1
Total # of trees per size class	3			4			11			2						20
# and size of standing dead trees	•						•									10

Common Understory Species (3-20')

Asiatic bittersweet* Red oak Winged euonymus*
Poison ivy Greenbrier Pawpaw
Red maple VAcreapl
Black cherry rubus sp nth redtask
Bush honeysuckle* Viburnum

Common Herbaceous Species (0-3')

A. bittersweet* jewelweed
P. ivy Viburnum
English ivy
fox grape
VAcreapl

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	100	20	85

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	80

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	early - mid

Comments (health, structure, habitat, etc.):

2 photos
poor health, 100% inv. cover

Sheet __ of __

Property: Purple Line | Prepared by: LT, KT

Stand: 19 | Plot: B | Plot size: 1/10th ac | Date: 5/12/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
White oak			*	*	*	*	* *			*						8
Turkey oak				*												1
Sassafras			* *													3
N. red oak					*											1
Black gum			*			*										2
Pignut hickory			*			*										2
Total # of trees per size class	6			7			3			1						17
# and size of standing dead trees	* *															—

Common Understory Species (3-20')
Exotic bush honeysuckle*
Sassafrass
Highbush blueberry
Common greenbrier
Serviceberry sp.

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
35	10	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 70

Common Herbaceous Species (0-3')
garlic mustard* white oak
English ivy*
Poison ivy
Sassafras
VA creeper
Common greenbrier

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early - mid

Comments (health, structure, habitat, etc.):
Stand plot in fair health, but surrounded by p. ivy, E. ivy, jap. honeysuckle, common greenbrier (100% herbaceous cover); gentle slope topography

2 photos (#1, #2)

Sheet __ of __

Property: Purple Line | Prepared by: KT, LT

Stand: 20 | Plot: A | Plot size: 1/10th AC | Date: 5/12/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar			••	•	••	•	%									11
Red maple						•							•			2
Red mulberry			••													2
Sweetgum			••				•									4
Total # of trees per size class	7			5			6						1			19
# and size of standing dead trees	•			••												20

Common Understory Species (3-20')

Pawpaw
Multiflora rose*
Common greenbrier
N. Spicebush
Japan. honey.
Blackberry sp.
Poison ivy
VA creeper
Grape sp.

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
80	50	25

% Understory Cover (3-20')

C	N	E	S	W	T
Y	N	Y	Y	Y	80

Basal Area in ft^2/acre: 110

Common Herbaceous Species (0-3')

Japanese honey.*
grass sp.
VA creeper
Smartweed sp.
Poison ivy
Multiflora rose*
Sedge sp.

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: Early-mid

Comments (health, structure, habitat, etc.):

*inv. spp.
light gaps, heavy vines (poison ivy, multiflora rose, japanese honey., grape)
Poor quality — inv. spp. dominate herbaceous + shrub layer + native invasive vines
Flat topography with drainage patterns and disturbed/cleared patches

Sheet __ of __

Property: Purple Line | Prepared by: KT, LT

Stand: 20 | Plot: B | Plot size: 1/10th ac | Date: 5/12/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar													•			1
Black cherry		X	⊠ ••		•											20
Sweetgum			X							••						7
Red maple		••	••			•		•								6
Total # of trees per size class	28			2			1			2			1			34
# and size of standing dead trees	•															—

Common Understory Species (3-20')

N. Spicebush, Sweetgum, Japan. honey.*, Poison ivy, Common greenbrier, grape sp.

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	80	20	5

Common Herbaceous Species (0-3')

Japan. honey.*, Violet sp., Poison ivy, Grass sp., Deertongue grass, Blackberry sp., Japan. stiltgrass*, grape sp., VA creeper, mile-a-minute*

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
N	Y	Y	N	Y	60	90

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	mid

Comments (health, structure, habitat, etc.):

*inv. spp.
light gaps, fair to poor due to inv. cover and edge influence
flat w/ trails
2 plots

Sheet __ of __

Property: Purple Line — Prepared by: KT, LT, GR

Stand: 21 — Plot: A — Plot size: 1/10th AC — Date: 5/19/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Am. Sycamore		••	1	☒	••											19
Slippery elm		•	::		••	•	•									8
Silver maple		••	☒		:•											15
Tulip poplar				•												1
N. catalpa		•														1
Red maple		••	::													6
Black cherry			•													1
Mimosa*			•													1
Green ash					•											1
Total # of trees per size class	33			19			1									53
# and size of standing dead trees																

Common Understory Species (3-20')

Ex. bush honey.* Slippery elm

Multiflora rose* European bittersweet*

Green ash Jap. honeysuckle*

Red maple

VA creeper

Common Herbaceous Species (0-3')

Japan. honey. *

Grass sp.

Garlic mustard*

VA creeper

exotic bush honey*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	N	Y	Y	80	30%	60%	10%

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 90

Plot Successional Stage: Early

Comments (health, structure, habitat, etc.):

* inv. exotic spp. Poor quality due to invasive understory (vines) & edge effects

Native and non-native inv. spp. over-taking canopy

Topography - floodplain, steep to gentle slope west to east

Plot between stream and hiker/biker path

Sheet __ of __

Property: Purple Line Prepared By KT, LT, GR

Stand #: 21 Plot #: B Plot Size: 1/10th AC Date: 5/19/10

Basal Area in sf/acre: 200

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Silver maple		11	XX		X			1	1		1					40
Sycamore		1	11	11	11		1									9
River birch		1			11											3
Slippery elm	1	1	11		11							1				10
Green ash			1													1
Red maple		11	11		11											9
Siberian elm*			11	1												2
Tree-of-heaven*			1		11					1						3
Total Number of Trees per Size Class	47			29			1									77
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20'
N. spicebush
Multiflora rose* Fox grape
Exotic bush honey.* Pawpaw
Green ash Willow oak
Euo. bittersweet*
Tree-of-heaven*

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	N	Y	Y	80

Percent of Invasive Cover per Plot (All Layers):

Plot Successional Stage: early

List of Herbaceous Species 0'-3':
Creeping charlie* Target creeper
Grass sp.
VA creeper
Japanese honey.*
Wingstem
Daylily Deertongue grass

% Understory Cover 3'-20'

C	N	E	S	W	Total	T	U	H
Y	N	N	Y	Y	40	20	40	30

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	N	Y	80

Comments
*inv. exotic spp. 2 photos
Topography steep to gentle west to east (slopes)
Plot bisect. stream and hiker/biker path
Sheet __ of __
Fair to poor health

Forest Sampling Data Worksheet C:1

Property: Purple Line Prepared By KT, LT, GR
Stand #: 22 Plot #: A Plot Size: 1/10 ac Date: 5/19/10

Basal Area in sf/acre: 60

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Siberian elm	⊠⊠ ⁘	⊠⊠ ⊠⊠ ⊠⊠	⁘													88
black locust		•														1
Total Number of Trees per Size Class	89															89
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20'
exot. bush honeysuckle*
multiflora rose*
siberian elm*

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers):
C 100%
U 20%
H 40%

Plot Successional Stage: early

List of Herbaceous Species 0'-3'
vetch sp.*
wineberry* korean lespedeza*
grass sp. multiple
thistle sp.* wild onion sp.
blackberry sp. curly dock

% Understory Cover 3'-20'

C	N	E	S	W	Total
N	Y	N	N	Y	40

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
* light gaps, multiple grass species * Poor quality, 2 photos
- flat topography with entirely invasive canopy

Sheet __ of __

Forest Sampling Data Worksheet C:1

2

→ Orchardgrass*
Kentucky bluegrass
Sweet vernalgrass*
Japanese brome*

Property: Purple Line Prepared By KT, LT, GR

Stand #: 22 Plot #: B Plot Size: 1/10 ac Date: 5/19/10

Basal Area in sf/acre: 35

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
callery pear *					•											1
siberian elm	⊠	⊠		••	••		••									26
black locust				•												1
Total Number of Trees per Size Class	19			7			2									28
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20'
- callery pear * - jap honeysuckle *
- exotic bush honeysuckle *
- siberian elm *

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	N	Y	Y	80

Percent of Invasive Cover per Plot (All Layers):
C - 90%
U - 30%
H - 30%

Plot Successional Stage: early

List of Herbaceous Species 0'-3'
- common milkweed
- blackberry - grass spp.
- japanese honeysuckle *
- creeping charlie *
- VA creeper - wild onion *

% Understory Cover 3'-20'

C	N	E	S	W	Total
N	Y	N	Y	Y	60

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
* canopy gaps - flat topography
- poor quality

Sheet __ of __

Forest Sampling Data Worksheet C:1

→ grass spp = Orchardgrass *
Kentucky bluegrass
Sweet vernalgrass *
Japanese brome *

Property: Purple Line | Prepared by: KT, LT, GR

Stand: 23 | Plot: A | Plot size: 1/10 ac | Date: 5/19/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
black gum	•	•	••	•												6
sweet gum	••	••	•	⁘												10
red maple	⁘	⁘	⁘	⁘	•											22
willow oak		•														1
VA pine				•												1
Total # of trees per size class	26			14												40
# and size of standing dead trees				••												40

Common Understory Species (3-20'): - VA pine - English ivy* - n. red oak - exotic bush honeysuckle* - Jap. honeysuckle* - poison ivy - common greenbrier

Common Herbaceous Species (0-3'): - japanese honeysuckle* - common greenbrier - blackberry sp. - sedge sp.

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	N	Y	Y	80	50	50	0

% Understory Cover (3-20')						Basal Area in ft^2/acre:
C	N	E	S	W	T	75
Y	Y	Y	N	Y	80	

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	early
Y	Y	Y	Y	Y	100	

Comments (health, structure, habitat, etc.):

- 2 photos
- greenbrier & honeysuckle (english ivy) overwhelm the herbaceous & understory
- poor quality due to vines

Sheet __ of __

Property: Purple Line Prepared By KT, LT, GR

Stand #: 23 Plot #: B Plot Size: 1/10 ac Date: 5/19/10

Basal Area in sf/acre: 50

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
red maple	::	⊠ 11 ⊠ ⊠	⊠ 1;	•	%					•						63
crabapple sp.			•													1
white mulberry*		••	•													3
sweet gum	••	⊠	••	••	••											15
slippery elm		••			•											3
Blk gum			•													1
VA pine		•														1
~~Blk willow~~				•												1
Total Number of Trees per Size Class	75			12						1						88
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20':
- sweet gum
- Grape sp. (fox)
- Multiflora rose *
- Exotic bush honey. *

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers):

Plot Successional Stage: early

List of Herbaceous Species 0'-3':
- VA creeper
- exotic bush honey *
- jap. honey *
- Blackberry sp.
- Sedge spp.
- grass sp.
- English ivy *

% Understory Cover 3'-20'

C	N	E	S	W	Total	H	U	T
Y	Y	Y	Y	Y	100	80	20	10

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
2 photos
*Inv spp.
- Poor quality - inv. spp + edge influence; native + exotic vines in canopy
- flat topography

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Line | Prepared by: KT, MR

Stand: 24 | Plot: A | Plot size: 1/10-th ac | Date: 5/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
White oak			tt		••											9
Black gum			•													1
Northern red oak			••	•	••		•	•								8
Mockernut hickory		•	t:		••	••										11
Black cherry			•													1
Pin oak			•		•											2
Tulip poplar		•														1
Red maple					•											1
Blackjack oak			•		•											2
Total # of trees per size class		2	19	1	10	2	1	1								36
# and size of standing dead trees							1									1

Common Understory Species (3-20')
White oak
Mockernut

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
10	0	0

% Understory Cover (3-20')

C	N	E	S	W	T
N	Y	Y	Y	N	60

Basal Area in ft^2/acre: 65

Common Herbaceous Species (0-3')
Sweetgum
Japan. honeysuckle
Lowbush blueberry
grass sp.
Sedge sp.
Common greenbrier

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	N	N	Y	Y	60

Plot Successional Stage: Early-Middle

Comments (health, structure, habitat, topography, etc.):
Relatively flat, healthy, moderate downed woody debris, several large standing dead trees, most regeneration hickory/oak.

Sheet __ of __

Property: Purple Vine | Prepared by: KT, MR

Stand: 24 | Plot: B | Plot size: 1/10th AC | Date: 5/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
White oak			11				4	6		4						10
Mockernut hickory			13													13
Sweetgum			1													1
Pin oak								1								1
Black gum			1			1										2
Total # of trees per size class			18		2	3	1	2		1						27
# and size of standing dead trees																

Common Understory Species (3-20')
Mockernut
Blackhaw
White oak
Greenbrier
Paw paw

Common Herbaceous Species (0-3')
Grass sp.
Blackberry sp.
Mile-a-minute*
Lowlush blueberry
VA creeper

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
10	0	0

% Understory Cover (3-20')

C	N	E	S	W	T
N	Y	N	Y	N	40

Basal Area in ft^2/acre: 80

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	N	Y	N	Y	60

Plot Successional Stage: Early middle

Comments (health, structure, habitat, topography, etc.):

Flat, good health, large downed woody debris.

Sheet __ of __

Property: Purple Line | Prepared by: KT, MR

Stand: 25 | Plot: A | Plot size: 1/10th ac | Date: 5/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Am. sycamore										1						1
Silver maple			10			3		1								11
Bitternut hickory										1						1
Black cherry						1										1
Box elder			2													2
Slippery elm			1													1
White mulberry*								1								1
Green ash											1					1
Total # of trees per size class			10			4		1		2	1					18
# and size of standing dead trees																0

Common Understory Species (3-20')
Northern spicebush
Norway maple*
Silver maple
Multiflora rose*
Poison ivy

Common Herbaceous Species (0-3')
Garlic mustard *
Japanese honey. *
Jack-in-the-pulpit
Grape vine

% Canopy Closure

C	N	E	S	W	T
Y	Y	N	Y	Y	80

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
75	10	5

Basal Area in ft^2/acre: 110

Plot Successional Stage: Middle

Comments (health, structure, habitat, topography, etc.):
* inv exotic spp.

Poor quality - inv. spp dominate herb. layer
Concave / disturbed floodplain

Sheet __ of __

Property: Purple Line | Prepared by: KT, MR

Stand: 25 | Plot: B | Plot size: 1/10th ac | Date: 5/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar			•					•								2
Am. Sycamore										••						2
Boxelder			••			•										5
Silver maple			••		••	•		•								6
Tree-of-heaven*							•									1
Common hackberry			•													1
Green ash			•													1
Slippery elm			•													1
Total # of trees per size class	10			4			3			2						19
# and size of standing dead trees										•						10

Common Understory Species (3-20')
N. spicebush
Multiflora rose*
Tree-of-heaven*
Oriental bittersweet*
English ivy*

% Canopy Closure

C	N	E	S	W	T
Y	N	Y	Y	Y	80

% Invasive Cover

H	U	T
80	30	20

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 85

Common Herbaceous Species (0-3')
Garlic mustard*
Tree-of-heaven*
Japan. honey.*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: Early-mid

Comments (health, structure, habitat, topography, etc.):
*inv. exotic spp.
canopy gaps / disturbed floodplain
flat
poor quality - inv. spp. dominate herb. layer + tree-of heaven prevalent
invasive vines in canopy + understory

Sheet __ of __

Property: Purple Line | Prepared by: KT, SM

Stand: 26 | Plot: A | Plot size: 1/10th AC | Date: 5/26/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Red mulberry			•													1
Red maple						•• ••	•• •	•• ••								11
Black gum						•										1
Sweetgum							•									1
Total # of trees per size class	1			5			8									14
# and size of standing dead trees				•• •												30

Common Understory Species (3-20')

Sassafrass
Poison ivy
Common greenbrier
American holly
Princess tree *
VA creeper
Green ash
Exotic bush honey. *

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
60	5	0

% Understory Cover (3-20')

C	N	E	S	W	T
N	Y	N	Y	Y	60

Basal Area in ft²/acre: 110

Common Herbaceous Species (0-3')

VA creeper
English ivy *
Poision ivy
Wild onion
Japan. honey. *
lesser periwinkle *
Sedge sp.

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: Early

Comments (health, structure, habitat, topography, etc.):

* inv. spp.
flat to gental slope away from Adelphi Rd
fair to poor quality - inv. herb. layer + edge influence
Some downed woody debris

Sheet __ of __

Property: Purple Line | Prepared by: KT, SM

Stand: 26 | Plot: B | Plot size: 1/10th AC | Date: 5/26/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot														Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sweetgum				o	x	o	o o o									11
RED MAPLE			o o			o o o o		o o o								9
BLACK GUM			o					o								2
Total # of trees per size class			3			12			7							22
# and size of standing dead trees																—

Common Understory Species (3-20')

Poison ivy, highbush blueberry, Cherry sp., red maple, English ivy*, green ash, WILLOW OAK, S. arrowwood, Common greenbrier, ? Princesstree*, EXOTIC BUSH HONEY SUCKLE

Common Herbaceous Species (0-3')

English ivy*, BLACKBERRY, VA creeper, Japan. honey.*, Wild onion, GARLIC MUSTARD

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	50	25	10

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	160
Y	N	N	Y	Y	60	

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	Early
Y	Y	Y	Y	Y	100	

Comments (health, structure, habitat, topography, etc.):

*inv. spp.

(See comments for Plot A)

POOR QUALITY - ENGLISH IVY AND POISON IVY CLIMBING INTO CANOPY, HERBACEOUS LAYER dom. by inv. spp.

Sheet __ of __

Property: Purple Line | Prepared by: SM, LT

Stand: 29 | Plot: A | Plot size: 1/10 Ac | Date: 6/9/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
RED MAPLE			**			*										6
COMMON SPICEBUSH					*		*			*						3
SWEET GUM			** **		◇ *	◇ ◇	**	*								11
BLACK LOCUST					**	*										4
BLACK GUM			**		*											3
WHITE MULBERRY			**			*										3
BOX ELDER			**													2
Total # of trees per size class	15			12			4			1						32
# and size of standing dead trees				◇ * ◇ *												40

Common Understory Species (3-20')
POISON IVY, BLACK CHERRY, FOX GRAPE, SWEET GUM, MULTIFLORA ROSE *, SLIPPERY ELM, GREEN BRIER, AMERICAN HOLLY, PAW PAW, PRIVET *, BOX ELDER

Common Herbaceous Species (0-3')
BLACKBERRY, RUBUS SP., JACK IN THE PULPIT, VIRGINIA CREEPER, JAPANESE HONEYSUCKLE *, POISON IVY, MULTIFLORA ROSE *, GREEN BRIER

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	N	Y	Y	Y	80	85	20	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	80	140

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	EARLY - MID

Comments (health, structure, habitat, topography, etc.):
PICTURES # 3, 4
TYPOGRAPHY SLOPING NORTH - SOUTH 30°
Poison ivy acting as invasive in tree layer (wrapped around several dead locusts and high into some sweet gums) of poor health.

Sheet __ of __

Property: Purple Line | Prepared by: SM, LT

Stand: 27 | Plot: B | Plot size: 1/10 ac. | Date: 6/9/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
RED MAPLE																10
PIN OAK																1
AMERICAN SYCAMORE																10
BLACK GUM																1
GREEN ASH																9
SWEET GUM																1
Total # of trees per size class	14			13			3			2						32
# and size of standing dead trees																10

Common Understory Species (3-20')
CORNUS FLORIDA *
PRIVET *
BOX ELDER
SLIPPERY ELM

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
85	20	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	N	Y	Y	Y	80

Basal Area in ft²/acre: 145

Common Herbaceous Species (0-3')
JAPANESE HONEY SUCKLE * PERIWINKLE
RUBUS SP. RASPBERRY VIOLA SP.
CAREX SP. * BLACK CHERRY
VIRGINIA CREEPER GREEN BRIAR
STICK TIGHT PLANT
POISON IVY
PRIVET *

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY - MID

Comments (health, structure, habitat, topography, etc.):
PICTURES # 5, 6
TOPOGRAPHY GENTLY SLOPING
POISON IVY PRESENT IN TREE LAYER.
HEALTH: POOR-FAIR

Sheet __ of __

Property: Purple Line | Prepared by: LT, SM

Stand: 28 | Plot: A | Plot size: 1/10 Ac | Date: 6/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
GREEN ASH			°	° °	°	° °	°									8
MULBERRY			° °													2
BOX ELDER			° °													2
SWEET GUM			° °		°°	°	° °									11
RED MAPLE			°		° °											3
SLIPPERY ELM					°											1
Total # of trees per size class	9			15			3									27
# and size of standing dead trees																

Common Understory Species (3-20')

FOX GRAPE
POISON IVY
MULTIFLORA ROSE*
PAW PAW
SLIPPERY ELM
VA JUMPSEED (Tovara virginica)
SPICE BUSH
Privit (Ligustrum sp.)*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	80	15	5.

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	125
Y	N	Y	Y	N	60	

Common Herbaceous Species (0-3')

STRAWBERRY
VIRGINIA CREEPER
POISON IVY
MULTIFLORA ROSE*
GARLIC MUSTARD*
PAW PAW
JAPANESE HONEYSUCKLE*
RUBUS SP.
GRASS SPP.
JACK IN THE PULPIT
GREEN BRIAR
Privit*

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	EARLY
Y	Y	Y	Y	Y	100	

Comments (health, structure, habitat, topography, etc.):

Topography gently sloping to flat
Poison ivy acting as invasive; tree layer 80% covered. Fox grape also acting as inv.
Photos 5 & 6 Also, multiflora rose ~70% herbaceous cover.
Stand poor health

Sheet ___ of ___

Property: Purple Line | Prepared by: LT, SM

Stand: 28 | Plot: B | Plot size: 1/10 AC | Date: 6/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot														Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
SWEET GUM		2		3	M		1	2								18
GREEN ASH			1	1	2	2	1	1								10
SLIPPERY ELM			2													3
WHITE OAK			1													1
RED MAPLE			1													1
Total # of trees per size class	8			20			5									33
# and size of standing dead trees				2												30

Common Understory Species (3-20')

MULTIFLORA ROSE* AMERICAN ELM
RUBUS SP. WILLOW OAK
GARLIC MUSTARD*
PRIVET (Ligustrum sp.)*
VIRGINIA CREEPER
FOX GRAPE
BOX ELDER

% Canopy Closure						
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover		
H	U	T
90	5	5

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	N	Y	Y	80

Basal Area in ft²/acre: 105

Common Herbaceous Species (0-3')

MILE A MINUTE* JAPANESE HOPBUSH SICKLE*
RUBUS SP. VIRGINIA CREEPER
MULTIFLORA ROSE* PIN OAK
GREEN BRIAR GOLDEN ROD (Solidago sp.)
GARLIC MUSTARD* JEWEL WEED
POISON IVY COMMON GREENBRIER
FOX GLOVER DEER TONGUE

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

Stand fair to poor health; herbaceous ~90% multiflora rose, VA creeper acting as inv. up trees.

Topography gently sloping

Plots 7 + 8

Sheet __ of __

Property: Purple Line | Prepared by: _____

Stand: 29 | Plot: A | Plot size: 1/10 AC. | Date: 6/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Box elder		•	☒		•											12
AMERICAN SYCAMORE													•			1
FLOWERING DOGWOOD			•													1
BLACK LOCUST		•														1
RED MAPLE														• - unhealthy, no stem		1
BLACK WALNUT			•													1
MULBERRY			•													2
Total # of trees per size class	16			1									2			19
# and size of standing dead trees																

21.9"

Common Understory Species (3-20')

MULTIFLORA ROSE*
RUBUS SP.
BOX ELDER
PIN OAK
JAPANESE KNOTWEED*
WILD CARROT

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
80	10	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 60

Common Herbaceous Species (0-3')

WILD STRAWBERRY* | BOX ELDER | JAPANESE KNOTWEED*
GARLIC MUSTARD* | FOX GRAPE | Vicia SP.
MILE-A-MINUTE* | Summer grape (Vitis aestivalis)
BUSH IVY | ENGLISH IVY*
MULTIFLORA ROSE* | GRASS SP.
VIRGINIA CREEPER | WILD CARROT

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

Stand fair to poor health.
Topography floodplain (flat); small trib. running adjacent to north side of plot
Photos 7 & 8

Sheet ___ of ___

Property: Purple Lane | Prepared by: LT, SM

Stand: 29 | Plot: B | Plot size: 1/10 Ac | Date: 6/19/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
BOX ELDER		o	⊠													13
AMERICAN SYCAMORE													o			1
BLACK LOCUST			oo													2
TULIP POPLAR													o			1
MULBERRY WHITE			o													1
RIVER BIRCH		o	oo		oo											7
Total # of trees per size class	20			3									2			25
# and size of standing dead trees																

Common Understory Species (3-20')

BOX ELDER
MULTIFLORA ROSE*
GARLIC MUSTARD*
POISON IVY

% Canopy Closure

C	N	E	S	W	T
Y	Y	N	Y	Y	80

% Invasive Cover

H	U	T
30	0	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 80

Common Herbaceous Species (0-3')

GARLIC MUSTARD*
JAPANESE KNOTWEED*
MILKWEED SP.
VIOLA SP.
POISON IVY
VIRGINIA CREEPER
SUMMER GRAPE
JAPANESE HONEYSUCKLE*
WOOD SORELL
BOX ELDER
STRAWBERRY
WILD CARROT
FOX GRAPE

% Herbaceous Cover (0-3')

C	N	E	S	W	T
N	Y	Y	Y	N	60

Plot Successional Stage: EARLY TO MID

Comments (health, structure, habitat, topography, etc.):

photos 1 & 2
topography floodplain to gently sloping
multiflora rose, fox grape, and poison ivy acting as invasives in several trees
Stand health fair

Sheet __ of __

Property: Purple Line | Prepared by: LT, SM

Stand: 30 | Plot: A | Plot size: 1/10 Ac. | Date: 6/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Box elder		⊠ X	⊠ ⊠ : :		⊠											50
A. Sycamore		•		• •	• •											7
Black Walnut			•	•												2
Willow OAK					•											1
PIN OAK		•														1
Total # of trees per size class	43			18												61
# and size of standing dead trees																

Common Understory Species (3-20')

Box elder
MULTIFLORA ROSE *
FOX GRAPE

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	80	7	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	110
Y	N	N	N	N	20	

Common Herbaceous Species (0-3')

garlic mustard *
jap. honeysuckle *
poison ivy
Kentucky bluegrass
wild strawberry
VA creeper
periwinkle
mile-a-min. *
cleavers
Wild rye (Elymus sp.)
MULTIFLORA ROSE *
FOX GRAPE

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	Early
Y	Y	Y	Y	Y	100	

Comments (health, structure, habitat, topography, etc.):

topography floodplain (flat)
photos 1 and 2.
herbaceous cover dominated by garlic mustard
Stand is fair health.

Sheet __ of __

Property: Purple Line | Prepared by: LT, SM

Stand: 30 | Plot: B | Plot size: 1/10 Ac. | Date: 6/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black walnut				° °	° °											4
Green ash	° °	° °	X	° °	° °	°										22
Box elder			•													1
Total # of trees per size class	13			14												27
# and size of standing dead trees																

Common Understory Species (3-20')

Multiflora rose* | poison ivy | Fox grape | privit (Ligustrum sp.)* | VA creeper | bush honeysuckle* | Japi honeysuckle* | Callery pear*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
40	40	10

% Understory Cover (3-20')

C	N	E	S	W	T
N	Y	N	N	Y	40

Basal Area in ft²/acre: 550

Common Herbaceous Species (0-3')

Kentucky bluegrass | VA creeper | English ivy* | Jap. honeysuckle* | poison ivy | fox grape | wild strawberry | multiflora rose* | mile-a-min.* | garlic mustard* | milkweed spp. | jewelweed

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

topography floodplain (flat), smaller tributaries running through plots

Stand poor health

Poison ivy and VA creeper acting as invasives - herbaceous and canopy layers completely overrun w/ poison ivy & VA creeper

Sheet __ of __

Property: Purple Line | Prepared by: LT, SM

Stand: 31 | Plot: A | Plot size: 1/10 Ac | Date: 6/9/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
NORWAY* MAPLE			o													1
SASSAFRAS																
GREEN ASH			oo		oo	o				o						7
MULBERRY (WHITE)			oo		o											4
SILVER MAPLE					o			oo		o						4
BLACK CHERRY			o													1
Unknown						o		o								2
Total # of trees per size class	8			6			3			2						19
# and size of standing dead trees				oo												30

Common Understory Species (3-20')
ENGLISH IVY*
POISON IVY
MULTIFLORA ROSE*
EXOTIC BUSH HONEYSUCKLE*
MULBERRY
RED OAK (NORTHERN)
SLIPPERY ELM
BLACK CHERRY
PIN OAK
FOX GRAPE

Common Herbaceous Species (0-3')
ENGLISH IVY*
RUBUS. BLACKBERRY
POISON IVY
MULTIFLORA ROSE*
PERIWINKLE
VIRGINIA CREEPER
FOX GRAPE
JAPANESE HONEYSUCKLE*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
100	90	80

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 110

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.):
TOPOGRAPHY gently sloping
COMPLETELY TAKEN OVER BY ENGLISH IVY; poison ivy acting as invasive
PICTURES 7, 8
Stand very poor health

Sheet __ of __

Property: PURPLE LINE | Prepared by: LT, SM

Stand: 31 | Plot: B | Plot size: 1/10 | Date: 6/9/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
CATALPA					○○	○										3
GREEN ASH			☒	○	○○					○						16
BLACK WALNUT				○*												2
PIN OAK					○	○	○									4
BLACK CHERRY			○		○											2
BLACK GUM					○											1
BOX ELDER						○										1
SLIPPERY ELM			○○		○○											5
MULBERRY (WHITE)					○○											2
Total # of trees per size class	14			20			1			1						36
# and size of standing dead trees																0

Common Understory Species (3-20')
ENGLISH IVY*
POISON IVY
MULTIFLORA-ROSE
VIBERNUM SP.
GREEN ASH
EXOTIC BUSH HONEYSUCKLE

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
90	60	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 110

Common Herbaceous Species (0-3')
ENGLISH IVY
POISON IVY
RED OAK
MULTIFLORA ROSE
JAPANESE HONEYSUCKLE
VIRGINIA CREEPER

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.):
TOPOGRAPHY gently sloping
PICTURES #9, 10
completely taken over by english ivy; poison ivy acting as invasive
stand very poor health

Sheet __ of __

Property: Purple Line | Prepared by: LT, GR

Stand: 32 | Plot: A | Plot size: 1/10 AC | Date: 10/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip Poplar													*	**		3
Norway Maple*			*													1
Slippery Elm			*****													14
Prunus sp.			*													1
White Mulberry*			**			**										8
Boxelder			*													1
Bitternut Hickory						*					*					2
Total # of trees per size class	22			4						1			3			30
# and size of standing dead trees										*						10

Common Understory Species (3-20')

Slippery Elm
Poison Ivy
Multiflora Rose*
Exotic Bush honeysuckle*
Prunus sp.

% Canopy Closure						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

% Invasive Cover		
H	U	T
80	30	25

% Understory Cover (3-20')

Basal Area in ft²/acre: 120

Common Herbaceous Species (0-3')

Poison Ivy
VA creeper
English Ivy*
Exotic bush honeysuckle*
Multiflora rose*
Periwinkle (? Oriental Bittersweet)

% Herbaceous Cover (0-3')						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

Plot Successional Stage: early - mid

Comments (health, structure, habitat, topography, etc.):

Photos 1&2 topography sloping W to E to gently sloping floodplain; channel w/ ripe-p from culvert along east side of stand
poor health; poison ivy reaching for invasive

Sheet __ of __

Property: Purple Line | Prepared by: LT, GR

Stand: 32 | Plot: B | Plot size: 1/10 ac | Date: 6/15/16

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip Poplar								•			••		••	•		8
Slippery Elm			X													7
American Beech			•													1
Willow Oak			•													1
Black Cherry			••													2
Total # of trees per size class	11						1			4			3			19
# and size of standing dead trees							•			•			•			30

Common Understory Species (3-20')

Exotic Bush honeysuckle* Prunus sp(?)

Poison ivy

Slippery elm

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
90	20	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 80

Common Herbaceous Species (0-3')

Multiflora Rose* Poison ivy

English ivy*

Periwinkle

Exotic Bush honeysuckle*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early to mid

Comments (health, structure, habitat, topography, etc.):

Photos 3 & 4, + prunus sp. photos

Stand poor health, poison ivy acting as invasive

topography same as plot 32 A

Sheet __ of __

Property: Purple Line/Piney Br Rd Prepared By D. Rodgers A. Tatone, M. Niehaus
Stand #: 32 Plot #: C Plot Size: 0.1 acre Date: 5/16/13

Basal Area in sf/acre: 90

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tuliptree				•	•	•							•			4
Red maple		•								•						2
Silver maple								••								2
Black cherry		•			•											2
Wh. mulberry						••										3
sweet cherry			::													5
Total Number of Trees per Size Class	7			7			2			1			1			18
Number & Size of Standing Dead Trees																0

List of Common Understory Species 3'-20':
English ivy, multiflora rose, Bush honeysuckle, poison ivy, Jap. black bindweed,

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 70

Plot Successional Stage: mid-late

List of Herbaceous Species 0'-3':
unknown violet, English ivy, poison ivy, multiflora rose

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
Photo 003- Looking N

Some large trees but no snags, invasives abundant, lack of regen, herbaceous layer almost entirely composed of non-native veg, little wildlife value

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Line
Stand: 33 Plot: A
Prepared by: SM, LT
Plot size: 1/10 ac Date: 6/16/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
TULIP POPLAR			**		**	*		*						*		7
RED MAPLE			*													1
N. RED OAK			*		*	*										3
SASSAFRAS					**			*								3
BLACK CHERRY			**			*										3
WHITE OAK			**											**		4
BLACK LOCUST			*													1
Total # of trees per size class	9			8			2						3			
# and size of standing dead trees																

Common Understory Species (3-20')
EXOTIC BUSH HONEYSUCKLE* BLACK CHERRY
POISON IVY PRINCE* GREENBRIER IVY*
SPICE BUSH
VIBURNUM SPECIES
HAWTHORN SPECIES
PAPAW

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
80	20	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	180

Basal Area in ft²/acre: 95

Common Herbaceous Species (0-3')
ENGLISH IVY* MULTIFLORA ROSE*
JAPANESE HONEYSUCKLE* POISON IVY
COMMON GREENBRIER EXOTIC BUSH HONEYSUCKLE*
POISON IVY VIOLA SP
JACK IN THE PULPIT VA CREEPER
ASIATIC BITTERSWEET*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	160

Plot Successional Stage: mid

Comments (health, structure, habitat, topography, etc.):
Stand fair to good health
Topography steep slope from east to west
photos 1 & 2

Sheet __ of __

Property: PURPLE LINE Prepared by: LT, SM

Stand: 33 Plot: B Plot size: 1/10 Ac Date: 6/16/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
N. RED OAK			•		••											4
SLIPPERY ELM			•													1
~~BEECH~~																
WHITE OAK			••													2
MUSCLE WOOD			•													1
TULIP POPLAR						•		•						•		3
SHUMARD OAK					•										•	1
BLACK GUM			•			•										2
CHESTNUT OAK					•											1
PRUNUS SP.			••													2
RED MAPLE						•										1
Total # of trees per size class	8			8			1						1			18
# and size of standing dead trees																—

Common Understory Species (3-20')

ARROWWOOD EXOTIC BUSH HONEYSUCKLE *

POISON IVY

EUROPEAN IVY *

PRIVET *

SPICE BUSH

HIGHBUSH BLUEBERRY

Common Herbaceous Species (0-3')

HONEYSUCKLE *

ENGLISH IVY *

JACK-IN-THE-PULPIT

PRIVET *

POISON IVY

GROUND (CREEPING) BUGLE

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
90	30	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre:

135

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage:

early to mid

Comments (health, structure, habitat, topography, etc.):

Photos 3 & 4

Topography steep slope east to west

Hand health fair; english ivy reaches tree layer in several trees

Sheet __ of __

Property: PURPLE LINE — Prepared by: LT SM

Stand: 34 — Plot: A — Plot size: 1/10 — Date: 6/16/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
TULIP POPLAR			•													1
RED MAPLE			•													1
GREEN ASH			••													3
AMERICAN BEECH			••													3
PIN OAK					••			•			••			•		8
WHITE OAK			••													2
BLACK GUM			•													1
Total # of trees per size class	11			5			1			1			1			19
# and size of standing dead trees				•												10

Common Understory Species (3-20')

HOLLY AMERICAN — Black cherry

HUCKLEBERRY — flowering dogwood

POISON IVY — Sample 1

PIGNUT HICKORY

AMERICAN BEECH

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	10	0	0

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	N	Y	Y	80

Basal Area in ft²/acre: 110

Common Herbaceous Species (0-3')

VA CREEPER — SASSAFRAS

PIN OAK — JAPANESE HONEYSUCKLE*

GREEN BRIER — BLACK CHERRY

ENGLISH IVY* — maple leaf viburnum

POISON IVY — Sprouts of Understory

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	N	80

Plot Successional Stage: early-mid

Comments (health, structure, habitat, topography, etc.):

Pictures 5, 6

Topography sloping from southeast to northwest

Stand good health

Sheet ___ of ___

Property: FORGE NINE | Prepared by: SM LT

Stand: 34 | Plot: B | Plot size: 1/10 ac. | Date: 6/16/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
AMERICAN HOLLY			1													1
AMERICAN BEECH			8													8
WHITE OAK			1		2	5								1		7
GREEN ASH								1								1
PIN OAK					2						2					2
SASSAFRAS			1													1
MISCELLANEOUS			1													1
RED MAPLE			1													1
BLACK CHERRY					1	1										2
FLOWERING DOGWOOD			2													2
Total # of trees per size class	15			8			1			1			1			26
# and size of standing dead trees				1												10

Common Understory Species (3-20')
AMERICAN BEECH
exotic bush honeysuckle*
spice bush

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
15	10	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	N	Y	80

Basal Area in ft²/acre: 105

Common Herbaceous Species (0-3')
VA CREEPER
POISON IVY
ENGLISH IVY*
SAMPLE #2 (ONION SP.)
EXOTIC BUSH HONEYSUCKLE*
AMERICAN BEECH
Asiatic hillcreeper*
Common Greenbrier
Fox grape

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early - mid

Comments (health, structure, habitat, topography, etc.):
PICTURES 7, 8
STAND GOOD HEALTH
TOPOGRAPHY SLOPING EAST TO WEST (30°)
fairly open herbaceous layer - much leaf litter

Sheet __ of __

Property: PURPLE LINE Prepared by: SDJ KT

Stand: 35 Plot: A Plot size: 1/10 AC. Date: 6/16/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
BLACK CHERRY			** **			*										5
GIANT SNC								*								1
GREEN ASH						*										1
AMERICAN BEECH			**													2
RED MAPLE						**										2
N. RED OAK						*										1
TULIP POPLAR											*		*			2
NORWAY MAPLE *			*													1
BOX ELDER			*													1
Total # of trees per size class	8			5			1			1			1			16
# and size of standing dead trees													*			16

Common Understory Species (3-20')

TRUMPET CREEPER, AMERICAN BEECH, POISON IVY, MAPLEWOOD SP, COMMON GREENBRIER, BLACK CHERRY, BOX ELDER, FROST GRAPE, HONEYSUCKLE *, SPICEBUSH, FOX GRAPE, TULIP POPLAR

Common Herbaceous Species (0-3')

FROST GRAPE, FOX GRAPE, VA CREEPER, POISON IVY, WHITE SNAKEROOT *

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
100	5	5

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 80

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early mid

Comments (health, structure, habitat, topography, etc.):

INTERMITTENT STREAM. STEEP SLOPE (40°) WEST TO EAST.

PHOTOS 9, 10

Plot fair to poor health; English ivy completely covers herbaceous layer. Fox grape acting as heavily invasive in tree layer. Unpaved trail adjacent to east side of stand

Sheet __ of __

Property: PURPLE LINE — Prepared by: SM LT

Stand: 35 — Plot: B — Plot size: 1/10 — Date: 6/16/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
PRUNUS SP.																1
AMERICAN SYCAMORE																1
TULIP POPLAR																6
BOX ELDER																4
RED MAPLE																3
BLACK WALNUT																2
WHITE MULBERRY *																2
Total # of trees per size class	11			6			1						1			19
# and size of standing dead trees																—

Common Understory Species (3-20')

SPICE BUSH — SAMPLE #3 (SHRUBBY, photo)

BOX ELDER

ENGLISH IVY *

EXOTIC BUSH HONEYSUCKLE *

FOX GRAPE

MULTIFLORA ROSE *

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
50	20	5

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	N	Y	80

Basal Area in ft²/acre: 90

Common Herbaceous Species (0-3')

VIOLA SP. — GRASS SP.

ENGLISH IVY * — VA CREEPER

POISON IVY — SAMPLE #3

MULTIFLORA ROSE *

JEWELWEED

FOX GRAPE

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

TOPOGRAPHY floodplain across unpaved trail; plot starts at base of slope west side

PICTURES # 11, 12 (flat)

Stand fair

Sheet ___ of ___

Property: PURPLE LINE | Prepared by: SM LT

Stand: 36 | Plot: A | Plot size: 1/10 | Date: JUN/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
RED MULBERRY*			° °													2
BLACK LOCUST			•		⊠											12
PRUNUS SP.			°													1
SUPPORT? ELM								°								1
SILVER MAPLE								°								1
BLACK CHERRY			•			•										1
Total # of trees per size class	5			11			2									18
# and size of standing dead trees																

Common Understory Species (3-20')
BUSH HONEYSUCKLE*
BLACK LOCUST
JAPANESE KNOTWEED*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	N	Y	80	90	70	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	N	Y	Y	80

Basal Area in ft²/acre: 125

Common Herbaceous Species (0-3')
JAPANESE KNOTWEED
POISON IVY
MILKWEED SP.
ENGLISH IVY

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	N	Y	80

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.):
PICTURES #1, 2
AREA HAS BEEN MULCHED (WOODCHIPS)
STAND HEALTH FAIR TO POOR
TOPOGRAPHY STEEP SLOPE. UPHILL TO EAST 45°

Sheet __ of __

Property: PURPLE LINE — Prepared by: SM LT

Stand: 36 — Plot: B — Plot size: 1/10 — Date: 6/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
RED MULBERRY					°	°										2
BOX ELDER			°°		°											3
BLACK WALNUT						°										1
SILVER MAPLE								°						°		2
RED MAPLE		°	°													2
									°							
Total # of trees per size class	4			4			1						1			10
# and size of standing dead trees																

Common Understory Species (3-20')
JAPANESE KNOTWEED ☆
FOX GRAPE
BLACK LOCUST
BOX ELDER

% Canopy Closure

C	N	E	S	W	T
Y	Y	N	Y	N	60

% Invasive Cover

H	U	T
90	80	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	N	80

Basal Area in ft²/acre: 55

Common Herbaceous Species (0-3')
SUMMER GRAPE
JAPANESE KNOTWEED ☆
GOLDENROD SP. (SOLIDAGO SP.)
POISON IVY
GARLIC MUSTARD

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.):
PHOTOS #3, 4
STAND HEALTH: POOR
TOPOGRAPHY: SMALL STREAM VALLEY (GENTLE SLOPES)

Sheet __ of __

Property: PURPLE LINE Prepared by: SM LT

Stand: 37 Plot: A Plot size: 1/10 Date: 6/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
BLACK LOCUST		⊠	*		**											13
TREE OF HEAVEN		*	*													2
SILVER MAPLE					**											3
PIN OAK					*			*								2
BLACK CHERRY					*											1
WHITE PINE					*											1
BLACK WALNUT					*											1
Total # of trees per size class	13			9			1									23
# and size of standing dead trees																

Common Understory Species (3-20')

BLACK LOCUST FOX GRAPE
BUSH HONEYSUCKLE *
SUMMER GRAPE
RED MULBERRY
SILVER MAPLE
JAPANESE KNOTWEED *

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
20	50	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 90

Common Herbaceous Species (0-3')

CARROT SP. Japanese Knotweed *
MILKWEED SP.
GRASS SP
GARLIC MUSTARD *

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

PHOTOS # 5, 6
Plot good to fair health
topography sloping south to north
forest is linear fragment between parking lot and metro RAIL.

Sheet __ of __

Property: PURPLE LINE | Prepared by: SM LT

Stand: 37 | Plot: 5 | Plot size: 1/10 | Date: 6/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
WHITE PINE					●●●	●										4
TULIP POPLAR		●			●											2
RED MAPLE		●														1
BLACK LOCUST		●	●		●●●●											6
AMERICAN ELM		●	●													2
SILVER MAPLE			●			●										2
BLACK WALNUT					●											1
BOX ELDER			●		●	●										3
Total # of trees per size class	8			13												21
# and size of standing dead trees																

Common Understory Species (3-20')

ENGLISH IVY (I) — EXOTIC BUSH HONEYSUCKLE (I)

SUMMER GRAPE

BOX ELDER

JAPANESE KNOTWEED (I)

RED MULBERRY

BLACK LOCUST

% Canopy Closure									
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	16.0	90	70	0

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 80

Common Herbaceous Species (0-3')

ENGLISH IVY — GARLIC MUSTARD

MULTIFLORA ROSE

CARROT SP.

MILKWEED SP.

VIOLA SP.

JAPANESE KNOTWEED

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.):

PICTURES # 7,8

Plot poor health

Topography sloping south to north

Forest linear fragment btwn. building and metro ROW.

Sheet __ of __

Property: PURPLE LINE Prepared by: SM LT

Stand: 38 Plot: A Plot size: 1/10 Date: 6/21/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
TULIP POPLAR			•		⊠			••								15
AMERICAN SYCAMORE					•											1
RED MAPLE			••			•										3
WHITE OAK			•			•										2
WHITE MULBERRY						•										1
WHITE PINE					•	•										2
Total # of trees per size class	4			16			4									24
# and size of standing dead trees																

Common Understory Species (3-20')
BOX ELDER, PRIVET*, SUMMER GRAPE, RUBUS SP., BLACK LOCUST, EXOTIC BUSH HONEYSUCKLE*, POISON IVY, FOX GRAPE

Common Herbaceous Species (0-3')
BOX ELDER, MILKWEED SP., POISON IVY, GRASS SP., GARLIC MUSTARD*, BUSH HONEYSUCKLE*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	15	50	5

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 145

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.):
PICTURES # 9, 10
TOPOGRAPHY SLOPES N TO S ~ 4/5°
Plot health fair to good

Sheet __ of __

Property: PURPLE LINE Prepared by: SM · LT

Stand: 38 Plot: B Plot size: 1/10 Date: 6/24/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
BLACK LOCUST		•	X		X	••		••								25
SILVER MAPLE			•		••	•										4
BOX ELDER			••													3
BLACK CHERRY			•													1
WHITE MULBERRY			•													1
AMERICAN SYCAMORE								•								1
Total # of trees per size class	15			17			3									35
# and size of standing dead trees				•												10

Common Understory Species (3-20')
ENGLISH IVY * COMMON GREENBRIER
BOX ELDER
MULTIFLORA ROSE * Exotic Bush honeysuckle *
FOX GRAPE
JAPANESE HONEYSUCKLE *
POISON IVY

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
90	80	5

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 145

Common Herbaceous Species (0-3')
BOX ELDER COMMON GREENBRIER
JAPANESE HONEYSUCKLE *
ENGLISH IVY *
MILKWEED SP.
POISON IVY

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):
Photos 11 + 12
Topography sloping north to south
Plot poor health

Sheet __ of __

Property: Purple | Prepared by: LT, BR

Stand: 39 | Plot: A | Plot size: 1/10 Ac | Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black Locust					X											5
Boxelder			X													6
Slippery Elm								•								1
Red Maple			••			••										4
Tulip poplar					••			•						•		4
N. Red Oak											•					1
Black Cherry			•			••										3
Total # of trees per size class	9			11			2			1			1			24
# and size of standing dead trees																

Common Understory Species (3-20')

Exotic bush honeysuckle* English Ivy*
Red Maple
Slippery Elm
Boxelder
Spice bush

Common Herbaceous Species (0-3')

English Ivy* Multiflora rose*
Bush honeysuckle*
Poison Ivy
Oriental bittersweet*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
85	60	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 100

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: mid

Comments (health, structure, habitat, topography, etc.):

Stand fair to poor
2 photos
Topography sloping 20° south to north

2) 72 185 18

Sheet __ of __

Property: Purple Line | Prepared by: LT, GR

Stand: 39 | Plot: B | Plot size: 1/10 ac | Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black cherry			x													6
Black Locust					::	•										5
Tulip poplar														::		3
White Oak								•								1
White Mulberry			::													2
Total # of trees per size class	8			5			1						3			17
# and size of standing dead trees				•												16

Common Understory Species (3-20')

Multiflora Rose* Privet*
English Ivy* Malus sp.
Spicebush Exotic bush honeysuckle*
Poison Ivy Boxelder

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	100	35	35

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	120
Y	Y	Y	Y	Y	100	

Common Herbaceous Species (0-3')

English Ivy*
Boxelder
Poison Ivy

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	mid
Y	Y	Y	Y	Y	100	

Comments (health, structure, habitat, topography, etc.):

Stand health poor; herbaceous layer completely overrun w/ E. ivy, also E. ivy almost reaches canopy in most trees
Topography sloping 45° south to north, to flat along parking lot.
2 photos

Sheet __ of __

Property: Purple Line | Prepared by: LT, GR

Stand: 40 | Plot: A | Plot size: 1/10 ac | Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Slippery Elm			••													2
Black Cherry			••		••	••	•	•								9
White Mulberry*			∝		•	•										9
Black Walnut* (photos)		•	••													5
Boxelder			••													2
Black Locust		••														2
Silver Maple													•			1
Total # of trees per size class	21			6			2						1			30
# and size of standing dead trees				•												10

Common Understory Species (3-20')

Multiflora rose* Foxgrape

Exotic bush honeysuckle*

English Ivy* Wilde mulberry*

Poison Ivy

Rubus sp.

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
4	4	4	4	4	100	35	40	15

% Understory Cover (3-20')					
C	N	E	S	W	T
4	4	4	4	4	100

Basal Area in ft²/acre: 90

Common Herbaceous Species (0-3')

Periwinkle Garlic Mustard*

Rubus sp. Japanese honeysuckle*

English Ivy* Multiflora rose*

Common greenbriar Poison Ivy

VA creeper

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
4	4	4	4	4	100

Plot Successional Stage: early-mid

Comments (health, structure, habitat, topography, etc.):

2 photos

Herbaceous layer coverage predominantly periwinkle.

Multiflora rose prevalent in understory.

Stand health poor to fair.

Topography gently sloping to flat.

62
2 | 125

Sheet __ of __

Property: Purple Line | Prepared by: LT, GK

Stand: 40 | Plot: B | Plot size: 1/10 ac | Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black Walnut		*	*	*												12
Black locust				•												1
Black cherry					•											1
White Mulberry *			•													1
Total # of trees per size class	11			4												15
# and size of standing dead trees																

Common Understory Species (3-20')

Multiflora Rose* Spicebush
Poison Ivy Pokeweed
Rubus sp garlic Mustard*
common greenbrier Boxelder* Fox grape
English Ivy* Bittersweet*

Common Herbaceous Species (0-3')

English Ivy* Greenbrier (COM)
Periwinkle poison ivy
Multiflora*
Viola sp.

% Canopy Closure						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

% Invasive Cover		
H	U	T
50	60	5

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 50

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

2 photos & for grape
Stand health poor; greenbrier, privy actors as invasives in understory; understory/herbaceous completely over run w/ the invasives, and a "native invasive."
Topography gently sloping

Sheet __ of __

Property: Purple Line | Prepared by: LT, GR

Stand: 41 | Plot: A | Plot size: 1/10 ac | Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Norway maple*		•	•													2
Boxelder			⊠ •		••											14
Sassafras			•		•											2
Tulip poplar					••											2
Black Locust		•			⁘		••	•								8
Slippery Elm			•													1
Total # of trees per size class	16			10			3									29
# and size of standing dead trees																

Common Understory Species (3-20')

Boxelder
Exotic bush honeysuckle*
Foxgrape
English ivy*
garlic Mustard* Privet*

Common Herbaceous Species (0-3')

garlic Mustard*
English ivy*
Viola sp.
Exotic bush honeysuckle*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	20	40	10

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	160
Y	Y	Y	Y	Y	100	

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	mid
Y	Y	Y	Y	Y	100	

Comments (health, structure, habitat, topography, etc.):

Fox Grape acting heavily invasive.
Stand health fair
Topography gently sloping
2 plots

160
1290
2)250

Sheet __ of __

Property: Purple Line Prepared by: LT, GR

Stand: 41 Plot: B Plot size: 1/10 ac Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sassafras			::													4
Boxelder			X													6
Black locust		•	••	•	X											11
Tulip poplar							•									1
Total # of trees per size class	13			8			1									22
# and size of standing dead trees				•											••	10

Common Understory Species (3-20')

Rubus sp.
Japanese knotweed*
Exotic bush honeysuckle*
American holly
English Ivy*
Boxelder
Foxgrape
Privet*
Multiflora Rose*
VA creeper

Common Herbaceous Species (0-3')

Rubus sp.
English Ivy*
VA creeper
Vida sp.
Bush honeysuckle*
Multiflora rose*
J. knotweed*
garlic Mustard*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
35	40	40

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 90

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: mid

Comments (health, structure, habitat, topography, etc.):

Foxgrape acting as an invasive (wrapped around snag)
VA creeper " " " " in some of understory (wrapped around small snag)
Stand poor to fair health
2 photos

Sheet __ of __

Property: Purple Line | Prepared by: LT, GR

Stand: 42 | Plot: A | Plot size: 1/10 ac | Date: 7/2/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black Walnut			••													3
Boxelder			⊠•													11
Black locust		✕	••		••	•	•									16
green Ash		••	••													5
White Mulberry*			•													1
American sycamore					•											1
E. cottonwood								•								1
Total # of trees per size class	30			6			2									38
# and size of standing dead trees																—

Common Understory Species (3-20')
Rubus sp.
Foxgrape
garlic Mustard*
Exotic bush honeysuckle*
Privet sp*

Common Herbaceous Species (0-3')
Rubus sp. garlic Mustard*
Exotic bush honeysuckle* Privet sp*
Viola sp.
J honeysuckle* Microstegium*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
60	40	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft^2/acre: 80

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):
2 photos
Stand health fair
Topography flat to gently sloping

SAMPLE #1
- mulberry-esque
- light green
- somewhat shiny
- variation in leaf shape
- 60 ft

Sheet __ of __

Property: Purple Line | Prepared by: LT, ED

Stand: 42 | Plot: 42B | Plot size: 0.1 Ac | Date: 7/9/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Box elder			⊡			•										9
N. Red oak			•							•						2
Green Ash			⁘													6
Slippery Elm		•			•											2
B. Locust		••	•		⊠											14
E. Cottonwood					••											2
B. Walnut			•													1
W. mulberry*						•										1
A. Beech						•										1
Total # of trees per size class	21			16						1						38
# and size of standing dead trees																—

Common Understory Species (3-20')

Bush honeysuckle* Poison ivy

Privet*

Box elder

Rubus sp.

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
40	40	5

% Understory Cover (3-20')

C	N	E	S	W	T
N	Y	Y	Y	Y	80

Basal Area in ft²/acre: 110

Common Herbaceous Species (0-3')

Rubus sp. Grass sp.

Garlic Mustard* Bush honeysuckle*

Viola sp. Jack in the pulpit

Microstegium* Clover (Same as plot A)

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	60

Plot Successional Stage: early mid

Comments (health, structure, habitat, topography, etc.):

2 photos taken

Topography gently sloping

Stand health fair

Sheet __ of __

Property: PURPLE LINE Prepared by: SM LT

Stand: 43 Plot: A Plot size: 1/10 ACRE Date: 7/7/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
NORWAY MAPLE *			o													1
BLACK LOCUST			o o o		o o	o o		o			o					11
MALUS SP.			o o o													5
BLACK WALNUT					o											
RED MAPLE			o o o													3
WHITE MULBERRY *			o o													2
TULIP POPLAR													o o			2
Black Cherry								o o								3
SLIPPERY ELM			o													
EASTERN BLACK OAK (Quercus velutina)														o		1
BOX ELDER			o o													2
Total # of trees per size class	18			5			3			1			3			30
# and size of standing dead trees				o			o o									30

Common Understory Species (3-20')

RED MULBERRY *
BUSH HONEYSUCKLE *
GREEN BRIAR
SASSAFRAS
BOX ELDER
POKE WEED
VA CREEPER
ORIENTAL BITTERSWEET *
MALUS SP.
FOX GRAPE
BLACK LOCUST

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
70	30	30

Common Herbaceous Species (0-3')

POISON IVY
ENGLISH IVY *
JAPANESE HONEYSUCKLE *
CLOVER SP. (LEXRON)
GREENBRIAR
RUBUS SP.
POKE WEED
GARLIC MUSTARD *
EXOTIC BUSH HONEYSUCKLE *

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 105

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY - MID

Comments (health, structure, habitat, topography, etc.):

PICTURES #1, 2

P. soy, grembar acting as invasives

SEVERAL SMALL SNAGS IN UNDERSTORY

TOPOGRAPHY STEEP 45° SLOPE (ALONG RAIL TRACKS) to flat along fenceline

English ivy coverage in herb. layer ~ 60% Stand health poor

Sheet __ of __

122
2/245

Property: PURPLE LINE Prepared by: SM LT
Stand: 43 Plot: B Plot size: Date: 7/7/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
RED MAPLE			2		1	2		1								14
TULIP POPLAR						1					2					4
BLACK CHERRY					1	1										2
BLACK LOCUST					1		1	2		1	2					9
GREEN ASH								1								1
Total # of trees per size class	5			12			6			7						30
# and size of standing dead trees				2												40

Common Understory Species (3-20')
RED MAPLE FOX GRAPE
EXOTIC BUSH HONEYSUCKLE
GREEN BRIAR OTHER GREENBRIAR
SASSAFRAS
POISON IVY
ENGLISH IVY

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
70	30	20

% Understory Cover (3-20')

C	N	E	S	W	T
N	N	N	Y	Y	40

Basal Area in ft²/acre: 140

Common Herbaceous Species (0-3')
COMMON GREENBRIAR
ENGLISH IVY
POISON IVY

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY-MID

Comments (health, structure, habitat, topography, etc.):
MOST TREES DIFFICULT WITH ENGLISH IVY OR OTHER VINES
TOPOGRAPHY STEEP SLOPE 45° SW → NE
2 photos
Stand poor health

Sheet __ of __

Property: Purple Line Prepared by: LT, ED

Stand: 4A Plot: A Plot size: 0.1 Ac Date: 07/09/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
B. locust			4	7	8	1										18
Box elder			7		6											8
W. mulberry*			1		1											2
Catalpa					1											1
Total # of trees per size class	10			19												29
# and size of standing dead trees																

Common Understory Species (3-20')

B. locust English Ivy*

Bush Honeysuckle* Slippery Elm

Box elder

Japanese knotweed*

Poision Ivy

Common Herbaceous Species (0-3')

English ivy* multiflora Rose*

viola sp. S. Honeysuckle*

microstegium* wild strawberry

Garlic mustard* grass sp.

Bush Honeysuckle*

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	95	65	5

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	30
N	N	Y	N	Y	40	

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	Early
N	N	Y	N	Y	40	

Comments (health, structure, habitat, topography, etc.):

Photos taken:

1. Sign looking South
2. ~~Canopy looking South~~
2. Center looking South
3. Canopy Closure
4. Sycamore West side of trail just outside plot
5. Tree line along west trail side facing north
6. Tree line along east trail side

Stand health fair to poor

Topography gently sloping to trail & center

Sheet __ of __

Property: Purple Line Prepared by: LT, ED

Stand: 44 Plot: 5 Plot size: 0.1 ac Date: 07/09/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Silver Maple					•											1
Box elder			••		•											7
Sycamore							•							•		2
W. Mulberry *					•											1
B. walnut			•	••												3
B. locust		•	••													3
Catalpa			•		•											2
~~White Ash~~ Green Ash				•			•									1
Total # of trees per size class	11			6			2						1			20
# and size of standing dead trees				•												10

Common Understory Species (3-20')
Bush Honeysuckle *
J. Knotweed *
Green Ash
Box elder
Slippery Elm

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	40	80	5

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	70
N	N	Y	N	Y	40	

Common Herbaceous Species (0-3')
Broadleaf Plantain Slippery elm grass sp
Viola Spp Summer grape
English Ivy * Box elder
Microstegium * J. honeysuckle *
fox grape

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	early mid
N	N	Y	N	Y	40	

Comments (health, structure, habitat, topography, etc.):
Photos:
1. Start of plot looking South
2. Center of plot looking South
3. Canopy closure from center West side of trail / facing south
4. Canopy closure at end of Plot facing South
5. End of plot facing North
6. East side of trail facing north

Stand health fair to poor

Typography gently sloping to trail on E side

Sheet __ of __

-over-

Property: Purpleline | Prepared by: GR & LT

Stand: 45 | Plot: A | Plot size: 1/10 ac | Date: 7/14/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Boxelder			•		••	⁂										9
Silver Maple			••		⁘	•										7
Black Walnut				•			•									2
Black Locust				•	⁘		•	•								8
E. Cottonwood								•								1
Total # of trees per size class	3			20			4									27
# and size of standing dead trees				•												10

Common Understory Species (3-20')
exotic bush honeysuckle*
japanese knotweed*
boxelder multiflora rose*
foxgrape

% Canopy Closure					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover		
H	U	T
35	90	0

% Understory Cover (3-20')					
C	N	E	S	W	T
N	N	Y	N	Y	40

Basal Area in ft²/acre: 100

Common Herbaceous Species (0-3')
boxelder microstegium*
viola sp. garlic mustard*
foxgrape green ash clearweed
multiflora rose* VA creeper
japanese honeysuckle* Oriental lady's thumb

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
N	N	Y	N	Y	40

Plot Successional Stage: EARLY

Comments (health, structure, habitat, topography, etc.): Photos 1-6

Stand health poor

Topography sloping towards stand, located in center of plot/stand

Trail ~14' across at center of plot

Sheet __ of __

Property: Purple Line | Prepared by: QR & LT

Stand: 45 | Plot: B | Plot size: 1/10 ac | Date: 7/19/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Boxelder			•			••										4
Princess tree			•													1
N. Catalpa					••	•										3
Silver maple							•	••	•	•						5
Norway* maple			•													1
E. Cottonwood							•									1
Black locust				•		•										2
A. Sycamore										•						1
Total # of trees per size class	3			8			5			2						18
# and size of standing dead trees																

Common Understory Species (3-20')

summer grape (√ porcelian berry) has berries
pokeweed
japanese knotweed* foxgrape
boxelder
exotic bush honeysuckle*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
20	60	5

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 50

Common Herbaceous Species (0-3')

Clearweed (Pilea pumila?)
viola sp.
summer grape (check)
japanese knotweed*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	N	Y	Y	80

Plot Successional Stage: early to mid

Comments (health, structure, habitat, topography, etc.): 2 photos

Stand health poor to fair

Topography steep slopes to riprap channel (runs E to W through linear plot)
Culvert flows into plot and perpendicular to riprap channel

Sheet __ of __

57 / 2 | 115 95 / 2 | 190

Property: Purple Line Prepared by: GR & LT
Stand: 46 Plot: A Plot size: 1/10 ac Date: 7/14/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Red maple			•		•											2
Boxelder			•													1
Black Locust			••	••	••					•						9 (supp. mega)
Slippery elm			••			•										3
Pin oak						•										1
Black cherry			•				•									2
Sassafras			••			•										5
Malus sp.			••													2
Tulip poplar			•		•	•		•						•		5 (Tag # 26059)
Green Ash										•						1
Total # of trees per size class	15			11			2			2			1			31
# and size of standing dead trees				•												10

Common Understory Species (3-20')
exotic bush honeysuckle*
slippery elm
sassafras
rubus sp.
poison ivy Privet*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
65	30	0

% Understory Cover (3-20')

C	N	E	S	W	T
N	N	Y	N	Y	40

Basal Area in ft²/acre: 80

Common Herbaceous Species (0-3')
Japanese honeysuckle* exotic bush honeysuckle* Amur grape*
sassafras Oriental bittersweet*
poison ivy Vinca sp.
english ivy* Christmas fern

% Herbaceous Cover (0-3')

C	N	E	S	W	T
N	N	Y	N	Y	40

Plot Successional Stage: early-mid

Comments (health, structure, habitat, topography, etc.):
Poison ivy acting as invasive in tree/herbaceous layers
Stand healthy, dense
Topography sloping to East 2 ponds

Sheet ___ of ___

Property: Purple Line Prepared by: LT & GR

Stand: 4b Plot: B Plot size: 1/10 ac Date: 7/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust				•	••	•	••	••			•					12
Tree of Heaven					•											1
Boxelder			⊠		••	••			•							18
E. Cottonwood													•			1
Tulip poplar										••						2
Total # of trees per size class	9			15			6			3			1			34
# and size of standing dead trees										•						10

Common Understory Species (3-20')
exotic bush honeysuckle*
English ivy*
boxelder

% Canopy Closure						
C	N	E	S	W	T	
Y	Y	Y	Y	Y	100	

% Invasive Cover		
H	U	T
35	85	10

% Understory Cover (3-20')

C	N	E	S	W	T
N	N	Y	N	Y	40

Basal Area in ft²/acre: 110

Common Herbaceous Species (0-3')
Viola sp.
Rubus sp.
exotic bush honeysuckle*
microstegium*
summer grape
wild carrot*
English ivy*
carex sp
lemonclover

% Herbaceous Cover (0-3')

C	N	E	S	W	T
N	N	Y	N	Y	40

Plot Successional Stage: early - mid

Comments (health, structure, habitat, topography, etc.):
2 photos
English ivy wrapped around 20-30" snag.
Stand health fair - understory predominantly low, but tree layer good.
Topography flat to gully slopes.

Sheet __ of __

91"

Property: Purple Line Prepared by: LT & JR
Stand: 47 Plot: A Plot size: 1/10 ac Date: 7/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Boxelder			••													4
Tulip poplar						•		••		•	••					7
Sweet gum					•											1
River birch					•			••								3
Slippery elm			•													1
A. Sycamore										•						1
Black Locust					•											1
Total # of trees per size class	5			4			4			5						18
# and size of standing dead trees				•												10

Common Understory Species (3-20')
exotic bush honeysuckle*
boxelder

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	Y	Y	Y	Y	100	70	90	0

% Understory Cover (3-20')						Basal Area in ft²/acre:
C	N	E	S	W	T	100
Y	Y	Y	N	Y	80	

Common Herbaceous Species (0-3')
exotic bush honeysuckle*
Rubus sp.
multiflora rose*
Tear thumb* Summer grape

% Herbaceous Cover (0-3')						Plot Successional Stage:
C	N	E	S	W	T	mid
Y	Y	Y	Y	Y	120	

Comments (health, structure, habitat, topography, etc.):
2 plots
Topography - plot starts at toe of steep slope, to gently sloping, to small, to flat mowed lawn (at edge of plot)
Stand health - prone to fair (tree layer good)

Sheet __ of __

Property: Purple Line | Prepared by: LT & GR

Stand: A7 | Plot: B | Plot size: 1/10 ac | Date: 7/15/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Boxelder																7
green ash																9
slippery elm																1
Black walnut																1
Total # of trees per size class	4			6			7			1						18
# and size of standing dead trees																10

Common Understory Species (3-20'):
oriental bittersweet*
exotic bush honeysuckle*
foxgrape
spicebush
poison ivy
privet sp.*

% Canopy Closure					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover		
H	U	T
15	60	40

Basal Area in ft²/acre: 120

Common Herbaceous Species (0-3'):
periwinkle VA creeper
spicebush
oriental bittersweet*
privet sp.*
foxgrape summergrape

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early-mid

Comments (health, structure, habitat, topography, etc.):
2 photos. Topography: floodplain
Poison ivy & fox grape heavily invasive in tree layer.
Stand health poor to fair

Sheet __ of __

Property: Purple Line | Prepared by: LT & GR

Stand: 4 & | Plot: B | Plot size: 1/10 ac | Date: 7/20/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black Cherry			••			••					•					5
Norway Maple*			•													5
Sassafras			•		•	•										3
A Beech			•			••										3
N. Catalpa					•					•						2
Black Locust										•						1
Tulip Poplar													•			1
N. Red Oak			•													1
Total # of trees per size class	10			7						3			1			21
# and size of standing dead trees																

Common Understory Species (3-20')

Spicebush, Norway maple*, Multiflora Rose*, English Ivy*, A. Beech, Privet sp.*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
75	30	35

% Understory Cover (3-20')

C	N	E	S	W	T
N	Y	N	Y	N	40

Basal Area in ft²/acre: 40

Common Herbaceous Species (0-3')

Microstegium sp.*, Viola sp., Norway maple*, English Ivy*, Oriental bittersweet*, VA creeper, Christmas fern, Poison Ivy, exotic bush honeysuckle*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
N	Y	N	Y	N	40

Plot Successional Stage: early

Comments (health, structure, habitat, topography, etc.):

2 plots

Topography: steep slope to trail @ center

Stand health: [illegible]

Sheet __ of __

Property: Purple Line | Prepared by: LT & GR

Stand: A8 | Plot: A | Plot size: 1/10 ac | Date: 7/20/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Boxelder			••			••										6
E. Cottonwood										••						2
A. Sycamore					•	•										2
Tulip Poplar			••		••											4
Total # of trees per size class	6			6						2						14
# and size of standing dead trees																

Common Understory Species (3-20')

exotic bush honeysuckle* spicebush poisonivy boxelder foxgrape

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
20	15	0

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 90

Common Herbaceous Species (0-3')

Spicebush exoticbush honeysuckle* Englishivy* garlicmustard* Viola sp. periwinkle

% Herbaceous Cover (0-3')

C	N	E	S	W	T
1	Y	Y	Y	Y	100

Plot Successional Stage: mid

Comments (health, structure, habitat, topography, etc.):

2 photos

Poison ivy acting as an in tree layer

topography sloping to floodplain; creek runs along plot edge

Stand healthy good

Sheet __ of __

Property: PURPLE LINE | Prepared by: SM, LT

Stand: 49 | Plot: A | Plot size: 1/10 ACRE | Date: 08/03/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
NORWAY MAPLE*			••			•										4
EASTERN COTTONWOOD													••			2
BOX ELDER			✕•			••		•								9
BLACK WALNUT								•								1
AMERICAN SYCAMORE										••						2
WHITE MULBERRY*						•										1
SLIPPERY ELM			•													1
GREEN ASH			•		•	•										3
BLACK LOCUST.							•	•								2
Total # of trees per size class	10			7			4			2			2			25
# and size of standing dead trees				••			•									40

Common Understory Species (3-20')

BOX ELDER
EXOTIC BUSH HONEYSUCKLE* GREEN ASH
ENGLISH IVY* NORTHERN CATALPA
POISON IVY
NORWAY MAPLE*

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
80	30	20

% Understory Cover (3-20')

C	N	E	S	W	T
Y	N	Y	N	Y	60

Basal Area in ft²/acre: 170

Common Herbaceous Species (0-3')

PERIWINKLE JAPANESE HONEYSUCKLE*
ENGLISH IVY*
GARLIC MUSTARD*
EXOTIC BUSH HONEYSUCKLE*
VIOLA SP.
FALSE NETTLE

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: early-mid

Comments (health, structure, habitat, topography, etc.):

PHOTOS # 1, 2
TOPOGRAPHY GENTLY SLOPING
Health fair to poor; several snags on the ground

Sheet __ of __

Property: PURPLE LINE Prepared by: SM, LT

Stand: 49 Plot: B Plot size: 1/10 ACRE Date: 08/03/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
BOX ELDER			••		•• ••	•		•								8
SILVER MAPLE			•		••											3
BLACK CHERRY			••		••			•								5
BLACK LOCUST					••			•		•						6
NORWAY MAPLE*			•													1
NORTHERN CATALPA			•													1
BLACK WALNUT			•													1
Total # of trees per size class	8			13			3			1						25
# and size of standing dead trees				•												10

Common Understory Species (3-20')
NORTHERN CATALPA FOX GRAPE
EXOTIC BUSH HONEYSUCKLES*
BOX ELDER
NORWAY MAPLE*
ENGLISH IVY*

Common Herbaceous Species (0-3')
VIOLA SP. JAPANESE HS*
ENGLISH IVY*
EXOTIC BUSH HSuckle*
WILD STRAWBERRY
GARLIC MUSTARD*
FALSE NETTLE

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
85	40	15

% Understory Cover (3-20')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Basal Area in ft²/acre: 156

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

Plot Successional Stage: EARLY - MID

Comments (health, structure, habitat, topography, etc.):
PHOTOS #3 & 4
PLOT HAS SEVERAL SNAGS ON THE GROUND
HEALTH POOR
TOPOGRAPHY GENTLY SLOPING

Sheet ___ of ___

Property: Purple Line — Prepared by: LT & GR

Stand: SO — Plot: A — Plot size: 1/10 ac — Date: 8/5/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar													••	•		3
Red cedar			•			••										3
Black Walnut					•											1
Red Maple								•								1
Silver Maple						•					•					2
Slippery elm			••			••										4
Black Locust				•	••	••	•	•								7
Black Cherry					•											1
Boxelder			••			••										5
White Oak									•							1
Total # of trees per size class		5			15			4			1			3		28
# and size of standing dead trees				•												10

Common Understory Species (3-20')

bamboo* — englishivy*
poisonivy — rubus. sp
spicebush — boxelder
foxgrape — summergrape

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
20	50	10 → English ivy

% Understory Cover (3-20')

C	N	E	S	W	T
Y	N	Y	N	Y	60

Basal Area in ft²/acre: 60

Common Herbaceous Species (0-3')

poisonivy — VA creeper periwinkle
summergrape — rubus sp.
bamboo* — englishivy*
microstegium* — grass sp.
viola sp. — Japanese honeysuckle*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	N	Y	N	Y	60

Plot Successional Stage: early-mid

Comments (health, structure, habitat, topography, etc.):

* previous sample (White IDs)

Red cedar at yard edge

2 photos

Topography sloping away from trail at center.
Understory east side of trail dominated by bamboo
Walls 4 ft

Sheet __ of __

Property: Purple Line | Prepared by: LT & GR

Stand: SD | Plot: B | Plot size: 1/10 ac | Date: 8/5/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sassafras			••			•			•							6
White Oak													•			1
Black Cherry			••													2
Black Walnut			•			••										3
American Beech			•													1
Pin Oak								•								1
A. Holly						••										2
Black Locust					•		•	••								4
A. Sycamore													•			1
Norway Maple*			•					•								2
Boxelder			•													1
Red Maple			••													3
Total # of trees per size class	13			6			6						2			27
# and size of standing dead trees																

Common Understory Species (3-20')

sassafras
spicebush
black cherry
english ivy*
summer grape

% Canopy Closure

C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover

H	U	T
80	15	15

% Understory Cover (3-20')

C	N	E	S	W	T
Y	N	Y	Y	Y	80

Basal Area in ft²/acre: 100

Common Herbaceous Species (0-3')

1. english ivy*
2. VA creeper
3. honeysuckle*
4. viola sp.
5. black locust
6. summer grape*
7. garlic mustard*

% Herbaceous Cover (0-3')

C	N	E	S	W	T
Y	N	Y	N	Y	60

Plot Successional Stage: early - mid

Comments (health, structure, habitat, topography, etc.):

2 Photos
A. holly at yard edge
Topography sloping toward trail at center
Health fair

Sheet __ of __

Property: Purple Line | Prepared by: LT & QR

Stand: S1 | Plot: A | Plot size: 1/10 ac | Date: 8/5/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Norway Maple *						••										3
Slippery elm			•			••										4
Tulip Poplar			••			•	•	••								10
Pin oak													•			1
Black Cherry						••										2
Black Walnut			•													1
Boxelder			•			••										4
White Mulberry *									•							1
green Ash			•													1
Total # of trees per size class	7			12			7						1			27
# and size of standing dead trees																

Common Understory Species (3-20')

Black locust, Sassafras, slippery elm, summergrape, norway maple*, exotic bush honeysuckle*

Common Herbaceous Species (0-3')

periwinkle, poisonivy, english ivy*, grass sp., viola sp., foxgrape

% Canopy Closure						% Invasive Cover		
C	N	E	S	W	T	H	U	T
Y	N	Y	Y	Y	80	35	25	15

% Understory Cover (3-20')					
C	N	E	S	W	T
Y	N	Y	N	Y	60

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
Y	N	Y	N	Y	60

Basal Area in ft²/acre: 80

Plot Successional Stage: Early - mid

Comments (health, structure, habitat, topography, etc.):

2 photos

Health fair

Topography sloping toward trail east side; flat to gently sloping west side

Sheet __ of __

Property: Purple Line | Prepared by: LT & GR

Stand: S1 | Plot: B | Plot size: 1/10 ac | Date: 8/11/10

Tree species with average height	Size class and crown position of trees > 20' height within sample plot															Total
	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9" dbh			Size of Trees > 30" dbh			
	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Tulip poplar										•	••					4
Sassafras			•													1
Flowering dogwood			•													1
green ash			•					•			•					3
A. beech			••		•			•								4
Black Cherry			•			•										2
Slippery elm			••		••											4
Norway maple*			••				•	•								4
Boxelder		•	•			••										4
B. locust						•	•	••			••					6
Total # of trees per size class	12			7			7			7						33
# and size of standing dead trees				•												10

Common Understory Species (3-20')

english ivy* oriental bittersweet*
boxelder bamboo*
a beech
norway maple*
exotic bush honeysuckle*

Common Herbaceous Species (0-3')

english ivy*
viola sp.
poison ivy

% Canopy Closure					
C	N	E	S	W	T
Y	Y	Y	Y	Y	100

% Invasive Cover		
H	U	T
80	30	30

% Understory Cover (3-20')					
C	N	E	S	W	T
N	N	Y	Y	Y	60

Basal Area in ft²/acre: 80

% Herbaceous Cover (0-3')					
C	N	E	S	W	T
N	N	Y	N	Y	40

Plot Successional Stage: early - mid

Comments (health, structure, habitat, topography, etc.):

Topography steep slopes towards trail at center
Health fair
2 photos

Sheet __ of __

Property: Purple Line Prepared By: DR, HS, MN

Stand #: 52 Plot #: A Plot Size: 1/10 ac Date: 4-18-13

Basal Area in sf/acre: 60

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Sweet gum	••	☒	⊠	•												29
red maple	••	••	□		••											15
black willow	•	••	••	••	••											13
tuliptree		•		•												2
Total Number of Trees per Size Class	48			11			0			0			0			59
Number & Size of Standing Dead Trees	••															3

List of Common Understory Species 3'-20': Sweet gum, red maple, black willow, silky dogwood, Southern arrowwood, multiflora rose

% of Canopy Closure

C	N	E	S	W	Total
Y	N	Y	Y	Y	80

Percent of Invasive Cover per Plot (All Layers): 20

Plot Successional Stage: early

List of Herbaceous Species 0'-3': Sensitive fern, fowl manna grass, japanese honeysuckle

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
N	Y	Y	Y	N	30

Comments: seep wetland extends throughout stand; edges are moderately-highly disturbed.

Sheet __ of __ minor amounts DWD Photo #920- lookings

Forest Sampling Data Worksheet C:1

Property: Purple Line Prepared By DR, HS, MN

Stand #: 52 Plot #: B Plot Size: 1/10 AC Date: 4-18-13

Basal Area in sf/acre: 60

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
red maple	1	1	1				1									4
tuliptree	2															2
sweetgum		2	1													12
sycamore	1	1														2
black willow	2	1		2												5
va pine	1															1
catalpa		2	1	1												14
box elder				1	1											2
white willow		1					2									2
big tooth aspen				1			1									2
Total Number of Trees per Size Class	36			6			4			0			0			46
Number & Size of Standing Dead Trees	2						1									5

List of Common Understory Species 3'-20':
red maple, sweet gum, southern arrow-wood, catalpa

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 70

Plot Successional Stage: early

List of Herbaceous Species 0'-3':
figbuttercup, poison ivy, Poa sp., garlic mustard, Japanese honeysuckle,

% Understory Cover 3'-20'

C	N	E	S	W	Total
N	N	Y	N	N	20

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	N	Y	N	60

Comments: perennial stream & abutting seep wetlands are present in stand; moderately-highly disturbed (especially edges) large amounts of trash present bamboo along edges- Photo #920A - looking S

Sheet __ of __

Forest Sampling Data Worksheet

C:1

Property: Purple Line Prepared By: D. Rodgers, H. Speargas, M. Nichols

Stand #: 153 Plot #: A Plot Size: 0.1 acre Date: 4-18-13

Basal Area in sf/acre: 80

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Black locust		•	•	••			•									5
Slippery elm	•	⠿	⠿	••	••			•								27
Black willow				•	•											2
White mulberry			•			•										2
American sycamore		•														1
Siberian elm	••	••	••	•	•		•									10
Total Number of Trees per Size Class	32			2			3			0			0			47
Number & Size of Standing Dead Trees	•			•												2

List of Common Understory Species 3'-20':
red maple, slippery elm, poison ivy, multiflora rose, English ivy, Japanese honeysuckle

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 65

Plot Successional Stage: early-mid

List of Herbaceous Species 0'-3':
Japanese black-bindweed, meadow garlic

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	N	Y	Y	80

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	N	N	N	40

Comments
disturbed, young stand, of low quality
provides stream buffer
footpath bi-secting stand
Photo #957 looking S
invasive spp. abundant

Sheet __ of __

Forest Sampling Data Worksheet

C:1

Property: Purple Line Prepared By DR, MN, HS

Stand #: 53 Plot #: B Plot Size: 0.1 acre Date: 4/18/13

Basal Area in sf/acre: 70

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
slippery elm		⊠:	⊠:	⁞	⁞		•									33
Sweet-gum				⁞	•											4
Catalpa						•										1
Bl. locust		••			•		•									4
Pin oak							••									2
Siberian elm					•											1
Red maple			•													1
Total Number of Trees per Size Class	27			15			4			0			0			46
Number & Size of Standing Dead Trees	•															1

List of Common Understory Species 3'-20': Multiflora rose, English ivy, horsebrier, Jap. Honeysuckle, Rose of Sharon

% of Canopy Closure					
C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 75

Plot Successional Stage: early-mid

List of Herbaceous Species 0'-3': stickywilly, daffodil, meadow garlic

% Understory Cover 3'-20'					
C	N	E	S	W	Total
Y	Y	N	Y	Y	80

% of Herbaceous Cover 0'-3'					
C	N	E	S	W	Total
N	Y	Y	Y	Y	80

Comments: Disturbed, young stand. Invasive spp. abundant, preventing regeneration. Provides stream buffer. Photo #1011 - Looking S

Sheet __ of __

Forest Sampling Data Worksheet

C:1

Property: Purple Line Prepared By DR, HS, MN

Stand #: 54 Plot #: A Plot Size: 0.1 ac Date: 4-18-13

Basal Area in sf/acre: 100

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
tulip tree				1												1
sweet gum			8													8
sycamore			2													2
chestnut oak			2				5			2						7
Va. pine			1													1
black gum		1	4		1											5
black locust			2													2
red maple		2	2		1											5
sweet cherry		1														1
white pine			1													1
sassafras		1	6			1										7
Total Number of Trees per Size Class	30			5			3			2			0			40
Number & Size of Standing Dead Trees				1												1

List of Common Understory Species 3'-20': mountain laurel, poison ivy, black cherry, chestnut oak, crab apple, multiflora rose.

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 15%

Plot Successional Stage: mid

List of Herbaceous Species 0'-3': poison ivy, multiflora rose ↑ along edges, japanese honeysuckle

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
N	Y	N	N	N	20

Comments: oak dominated forest w/ younger & non-native species along the edges, sparse herbaceous cover

Sheet __ of __

photo 1315 - looking south at plot

Forest Sampling Data Worksheet

C:1

Property: Purple Line Prepared By DR, HS, MN

Stand #: 54 Plot #: B Plot Size: 0.1 ac Date: 4/18/13

Basal Area in sf/acre: 100

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Chestnut oak			•	•			••			•			•			6
Black gum			⊠⊠ 1:	•	⊏	••										35
Red maple		•	••		••	•										8
Sassafras			•													1
Total Number of Trees per Size Class	31			15			2			1			1			50
Number & Size of Standing Dead Trees	••			•••			•									5

List of Common Understory Species 3'-20': Mountain Laurel, Blackgum, Pink azalea, Blueberry sp.

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 5%

Plot Successional Stage: Mid

List of Herbaceous Species 0'-3': None

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
N	N	N	Y	N	20

Comments: Well developed oak forest. Some edge disturbance

Sheet __ of __

Photo 1401 - Looking S

Forest Sampling Data Worksheet

C:1

Property: Purple Line Prepared By D. Rodgers, M. Niehaus, H. Speraos

Stand #: 55 Plot #: A Plot Size: 0.1 ac Date: 4-18-13

Basal Area in sf/acre: 50

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Boxelder	•		•			•	•									4
Sycamore	•	••														3
Sweetgum		□	⁘													12
Pin oak	•	•	•													3
Bl. willow	•	•		•	⁘											8
Sumac sp.			•													1
Bl. locust		•					•									2
Wh mulberry		•	••													4
Siberian elm			•	•	•											3
Total Number of Trees per Size Class	31 (see below)			12 (see below)			2			0			0			45 (see below)
Number & Size of Standing Dead Trees																

List of Common Understory Species 3'-20':
Jap. honeysuckle, English ivy, Red maple, Crab apple, Sweetgum, Multiflora rose, Amur honeysuckle

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	N	Y	80

Percent of Invasive Cover per Plot (All Layers): 90%

Plot Successional Stage: Early

List of Herbaceous Species 0'-3':
Common duckweed, meadow garlic

% Understory Cover 3'-20'

C	N	E	S	W	Total
N	Y	Y	Y	Y	80

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments

	D 2-5.9" CD	O	D 6-11.9" CD	O	
Tuliptree			•		1
Silver maple	••		• •		4

Stand is highly disturbed, of low quality. Provides stream & wetland buffer but covered in trash & inv. species

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Line Prepared By DR HS, MN
Stand #: 55 Plot #: B Plot Size: 0.1 ac. Date: 4-18-13

Basal Area in sf/acre: 80

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Siberian elm				•	•			••								4
box elder			••													4
black locust		••			••	•		•								8
callery pear		•	•													2
sweet gum		••	••				•									8
white mulberry									•							1
willow oak			••										•			3
Total Number of Trees per Size Class	17			7			5			0			1			30
Number & Size of Standing Dead Trees	•															1

List of Common Understory Species 3'-20': box elder, Amur honeysuckle, English ivy, multiflora rose, grape vine

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 90 %

Plot Successional Stage: early

List of Herbaceous Species 0'-3': garlic mustard, honeysuckle, meadow garlic, English ivy

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments: highly disturbed forest; invasive species abundant and are preventing regeneration of tree species and are damaging existing trees; stand contains wetland & stream 38" willow oak

Sheet __ of __

Forest Sampling Data Worksheet C:1

Property: Purple Line/Haig Dr Prepared By D. Rodgers A. Tatone, M. Niehaus
Stand #: 56 Plot #: A 3 Plot Size: 0.1 acre Date: 5/16/14

Basal Area in sf/acre: 100	Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Red maple			▪▪▪	▪▪	▪▪▪											21
Black locust			▪	▪▪	▪▪											6
~~Blackgum~~			▪▪													2
Sweetgum			▪	▪▪	▪		▪									5
Green ash		▪	▪	▪	▪											4
VA pine					▪											1
~~Am. elm~~					▪		▪									2
Total Number of Trees per Size Class	18			21			2									41
Number & Size of Standing Dead Trees	▪			▪												2

List of Common Understory Species 3'-20':
Bush honeysuckle, Jap. honeysuckle, VA Creeper, blackberry, poison ivy

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 60

Plot Successional Stage: early

List of Herbaceous Species 0'-3':
Buttercup, unknown sedge, hairy bittercress

% Understory Cover 3'-20'

C	N	E	S	W	Total
N	Y	Y	Y	N	60

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Comments
Photo 001 - Looking N

Sheet __ of __ Young forest, invasives abundant, low diversity in understory + ground cover little wildlife value.

Forest Sampling Data Worksheet C:1

Property: Purple Line/Haig Dr Prepared By D. Rodgers A. Tatone, M. Nicholas
Stand #: 56 Plot #: B Plot Size: 0.1 acre Date: 5/16/13

Basal Area in sf/acre: 110

Size class of trees > 20' height within sample plot

Tree Species	# of Trees 2-5.9" dbh			# of Trees 6-11.9" dbh			# of Trees 12-19.9" dbh			# of Trees 20-29.9 dbh			# of Trees > 30" dbh			Total
Crown Position	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	Dom	CoD	Other	
Willow oak				•	••		•									4
Black cherry	•	••	••	·												6
Red maple				••												2
Sweetgum		•		••		•										4
~~Box Elder~~																
Chinese elm			•	•	•											3
Total Number of Trees per Size Class	8			10			1									19
Number & Size of Standing Dead Trees				••												2

List of Common Understory Species 3'-20': Bush honeysuckle, VA creeper

% of Canopy Closure

C	N	E	S	W	Total
Y	Y	Y	Y	Y	100

Percent of Invasive Cover per Plot (All Layers): 50

Plot Successional Stage: early

List of Herbaceous Species 0'-3': Common chickweed, stickywilly, blackberry, Jap. honeysuckle, trumpet creeper

% Understory Cover 3'-20'

C	N	E	S	W	Total
Y	Y	Y	Y	N	80

% of Herbaceous Cover 0'-3'

C	N	E	S	W	Total
Y	N	N	Y	Y	60

Comments
Photo 002 - Looking N

Young forest w/ poor regen, low diversity in herb layer, little wildlife value

Sheet __ of __

Forest Sampling Data Worksheet C:1

APPENDIX D

PHOTOGRAPHIC DOCUMENTATION

Photograph 1

Date: April 13, 2010
Comments: Stand 1, Sample Plot A.

Photograph 2

Date: April 13, 2010
Comments: Stand 1, Sample Plot B.

Photograph 3

Date: April 13, 2010
Comments: Stand 2, Sample Plot A.

Photograph 4

Date: April 13, 2010
Comments: Stand 2, Sample Plot B.

Photograph 5

Date: April 13, 2010
Comments: Stand 3, Sample Plot A.

Photograph 6

Date: April 13, 2010
Comments: Stand 3, Sample Plot B.

Photograph 7

Date: April 15, 2010
Comments: Stand 4, Sample Plot A.

Photograph 8

Date: April 15, 2010
Comments: Stand 4, Sample Plot B.

Photograph 9

Date: April 15, 2010
Comments: Stand 5, Sample Plot A.

Photograph 10

Date: April 15, 2010
Comments: Stand 5, Sample Plot B.

Photograph 11

Date: April 15, 2010
Comments: Stand 6, Sample Plot A.

Photograph 12

Date: April 15, 2010
Comments: Stand 6, Sample Plot B.

Photograph 13

Date: April 15, 2010
Comments: Stand 7, Sample Plot A.

Photograph 14

Date: April 15, 2010
Comments: Stand 7, Sample Plot B.

Photograph 15

Date: April 21, 2010
Comments: Stand 8, Sample Plot A.

Photograph 16

Date: April 21, 2010
Comments: Stand 8, Sample Plot B.

Photograph 17

Date: April 21, 2010
Comments: Stand 9, Sample Plot A.

Photograph 18

Date: April 21, 2010
Comments: Stand 9, Sample Plot B.

Photograph 19

Date: April 29, 2010
Comments: Stand 10, Sample Plot A.

Photograph 20

Date: April 29, 2010
Comments: Stand 10, Sample Plot B.

Photograph 21

Date: April 29, 2010
Comments: Stand 11, Sample Plot A.

Photograph 22

Date: April 29, 2010
Comments: Stand 11, Sample Plot B.

Photograph 23

Date: May 4, 2010
Comments: Stand 12, Sample Plot A.

Photograph 24

Date: May 4, 2010
Comments: Stand 12, Sample Plot B.

Photograph 25

Date: May 4, 2010
Comments: Stand 13, Sample Plot A.

Photograph 26

Date: May 4, 2010
Comments: Stand 13, Sample Plot B.

Photograph 27

Date: May 4, 2010
Comments: Stand 14, Sample Plot A.

Photograph 28

Date: May 4, 2010
Comments: Stand 14, Sample Plot B.

Photograph 29

Date: May 4, 2010
Comments: Stand 15, Sample Plot A.

Photograph 30

Date: May 4, 2010
Comments: Stand 15, Sample Plot B.

Photograph 31

Date: May 4, 2010
Comments: Stand 16, Sample Plot A.

Photograph 32

Date: May 4, 2010
Comments: Stand 16, Sample Plot B.

Photograph 33

Date: May 7, 2010
Comments: Stand 17, Sample Plot A.

Photograph 34

Date: May 7, 2010
Comments: Stand 17, Sample Plot B.

Photograph 35

Date: May 7, 2010
Comments: Stand 18, Sample Plot A.

Photograph 36

Date: May 7, 2010
Comments: Stand 18, Sample Plot B.

Photograph 37

Date: May 7, 2010
Comments: Stand 19, Sample Plot A.

Photograph 38

Date: May 12, 2010
Comments: Stand 19, Sample Plot B.

Photograph 39

Date: May 12, 2010
Comments: Stand 20, Sample Plot A.

Photograph 40

Date: May 12, 2010
Comments: Stand 20, Sample Plot B.

Photograph 41

Date: May 19, 2010
Comments: Stand 21, Sample Plot A.

Photograph 42

Date: May 19, 2010
Comments: Stand 21, Sample Plot B.

Photograph 43

Date: May 19, 2010
Comments: Stand 22, Sample Plot A.

Photograph 44

Date: May 19, 2010
Comments: Stand 22, Sample Plot B.

Photograph 45

Date: May 19, 2010
Comments: Stand 23, Sample Plot A.

Photograph 46

Date: May 19, 2010
Comments: Stand 23, Sample Plot B.

Photograph 47

Date: May 21, 2010
Comments: Stand 24, Sample Plot A.

Photograph 48

Date: May 21, 2010
Comments: Stand 24, Sample Plot B.

Photograph 49

Date: May 21, 2010
Comments: Stand 25, Sample Plot A.

Photograph 50

Date: May 21, 2010
Comments: Stand 25, Sample Plot B.

Photograph 51

Date: May 26, 2010
Comments: Stand 26, Sample Plot A.

Photograph 52

Date: May 26, 2010
Comments: Stand 26, Sample Plot B.

Photograph 53

Date: June 9, 2010
Comments: Stand 27, Sample Plot A.

Photograph 54

Date: June 9, 2010
Comments: Stand 27, Sample Plot B.

Photograph 55

Date: June 2, 2010
Comments: Stand 28, Sample Plot A.

Photograph 56

Date: June 2, 2010
Comments: Stand 28, Sample Plot B.

Photograph 57

Date: June 2, 2010
Comments: Stand 29, Sample Plot A.

Photograph 58

Date: June 9, 2010
Comments: Stand 29, Sample Plot B.

Photograph 59

Date: June 2, 2010
Comments: Stand 30, Sample Plot A.

Photograph 60

Date: June 2, 2010
Comments: Stand 30, Sample Plot B.

Photograph 61

Date: June 9, 2010
Comments: Stand 31, Sample Plot A.

Photograph 62

Date: June 9, 2010
Comments: Stand 31, Sample Plot B.

Photograph 63

Date: June 15, 2010
Comments: Stand 32, Sample Plot A.

Photograph 64

Date: June 15, 2010
Comments: Stand 32, Sample Plot B.

Photograph 65

Date: June 16, 2010
Comments: Stand 33, Sample Plot A.

Photograph 66

Date: June 16, 2010
Comments: Stand 33, Sample Plot B.

Photograph 67

Date: June 16, 2010
Comments: Stand 34, Sample Plot A.

Photograph 68

Date: June 16, 2010
Comments: Stand 34, Sample Plot B.

Photograph 69

Date: June 16, 2010
Comments: Stand 35, Sample Plot A.

Photograph 70

Date: June 16, 2010
Comments: Stand 35, Sample Plot B.

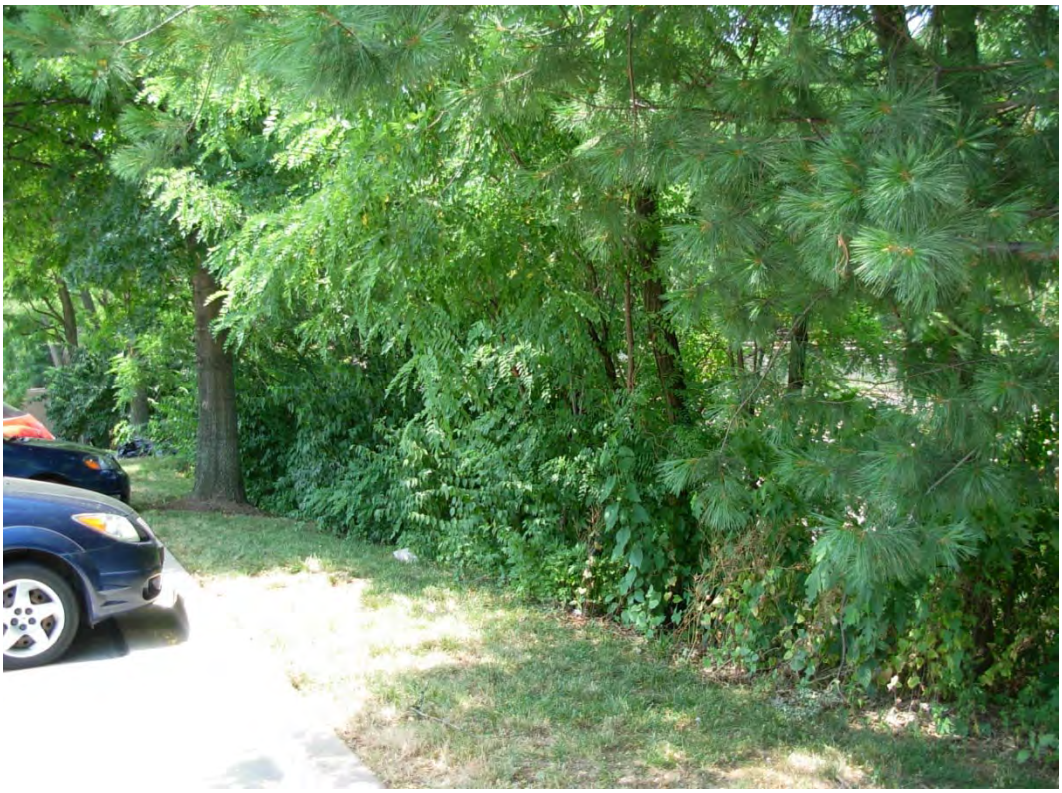
Photograph 71

Date: June 21, 2010
Comments: Stand 36, Sample Plot A.

Photograph 72

Date: June 21, 2010
Comments: Stand 36, Sample Plot B.

Photograph 73



Date: June 21, 2010
Comments: Stand 37, Sample Plot A.

Photograph 74

Date: June 21, 2010
Comments: Stand 37, Sample Plot B.

Photograph 75

Date: June 21, 2010
Comments: Stand 38, Sample Plot A.

Photograph 76

Date: June 21, 2010
Comments: Stand 38, Sample Plot B.

Photograph 77

Date: July 2, 2010
Comments: Stand 39, Sample Plot A.

Photograph 78

Date: July 2, 2010
Comments: Stand 39, Sample Plot B.

Photograph 79

Date: July 2, 2010
Comments: Stand 40, Sample Plot A.

Photograph 80

Date: July 2, 2010
Comments: Stand 40, Sample Plot B.

Photograph 81

Date: July 2, 2010
Comments: Stand 41, Sample Plot A.

Photograph 82

Date: July 2, 2010
Comments: Stand 41, Sample Plot B.

Photograph 83

Date: July 2, 2010
Comments: Stand 42, Sample Plot A.

Photograph 84

Date: July 9, 2010
Comments: Stand 42, Sample Plot B.

Photograph 85

Date: July 7, 2010
Comments: Stand 43, Sample Plot A.

Photograph 86

Date: July 7, 2010
Comments: Stand 43, Sample Plot B.

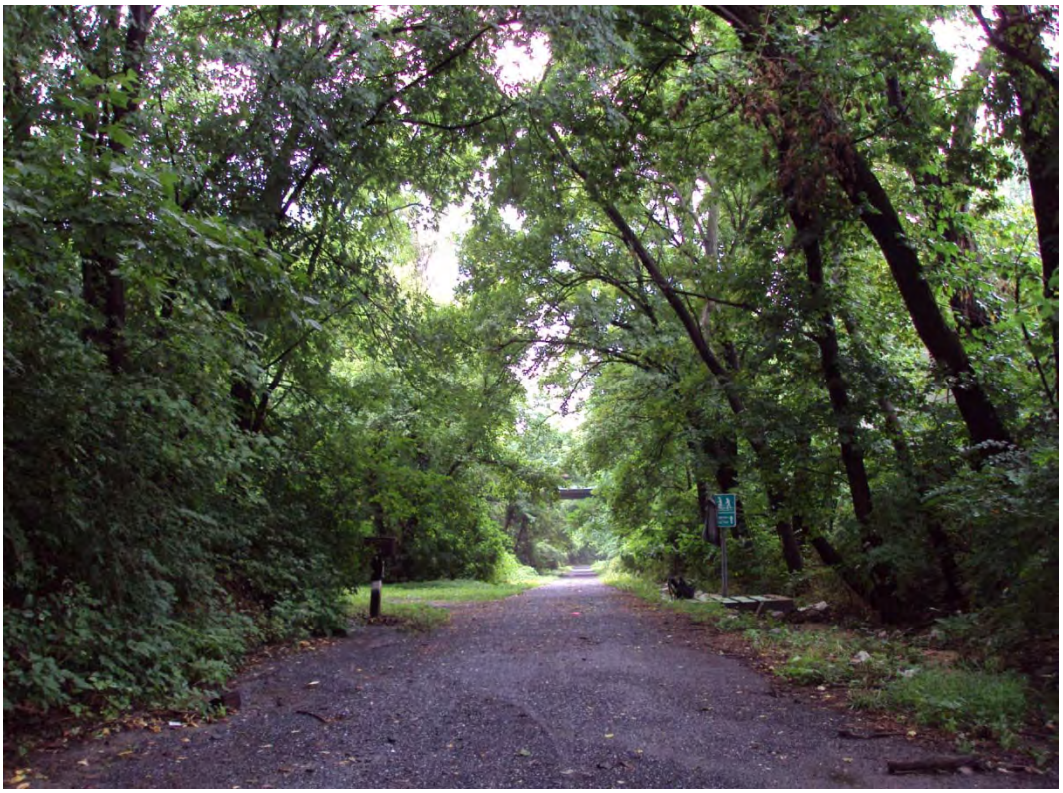
Photograph 87

Date: July 9, 2010
Comments: Stand 44, Sample Plot A.

Photograph 88

Date: July 9, 2010
Comments: Stand 44, Sample Plot B.

Photograph 89



Date: July 14, 2010
Comments: Stand 45, Sample Plot A.

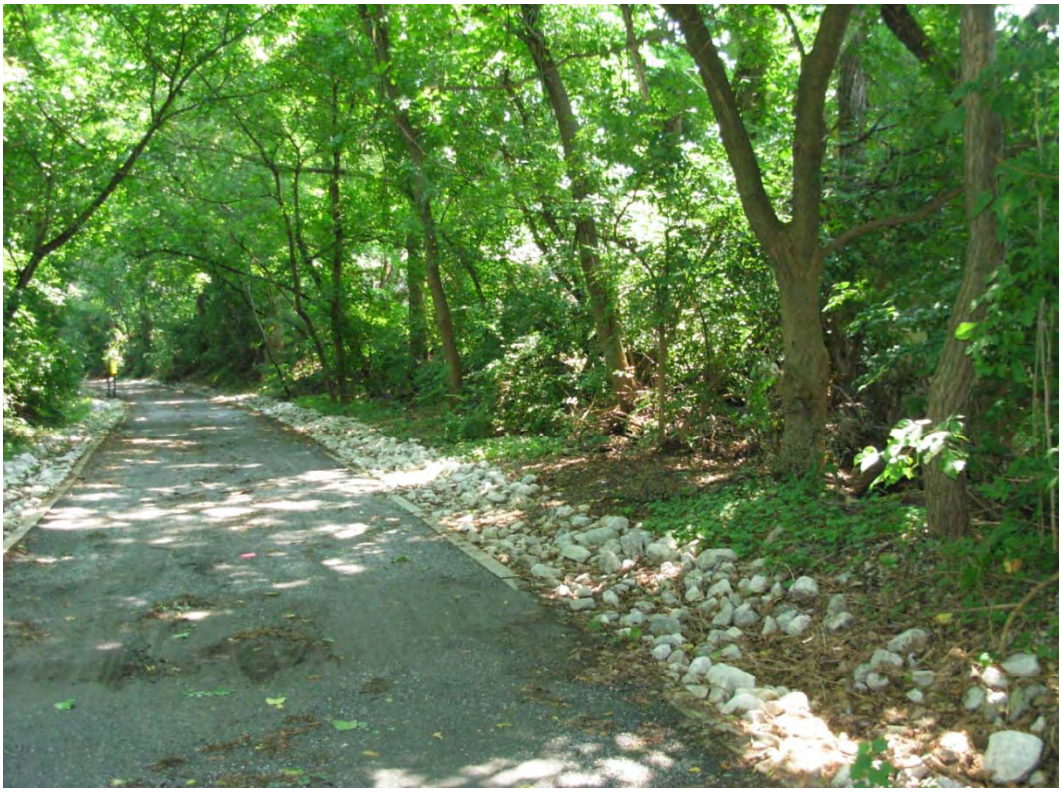
Photograph 90

Date: July 14, 2010
Comments: Stand 45, Sample Plot B.

Photograph 91

Date: July 14, 2010
Comments: Stand 46, Sample Plot A.

Photograph 92



Date: July 15, 2010
Comments: Stand 46, Sample Plot B.

Photograph 93

Date: July 15, 2010
Comments: Stand 47, Sample Plot A.

Photograph 94

Date: July 15, 2010
Comments: Stand 47, Sample Plot B.

Photograph 95

Date: July 20, 2010
Comments: Stand 48, Sample Plot A.

Photograph 96

Date: July 20, 2010
Comments: Stand 48, Sample Plot B.

Photograph 97

Date: August 3, 2010
Comments: Stand 49, Sample Plot A.

Photograph 98

Date: August 3, 2010
Comments: Stand 49, Sample Plot B.

Photograph 99

Date: August 5, 2010
Comments: Stand 50, Sample Plot A.

Photograph 100

Date: August 5, 2010
Comments: Stand 50, Sample Plot B.

Photograph 101

Date: August 5, 2010
Comments: Stand 51, Sample Plot A.

Photograph 102

Date: August 11, 2010
Comments: Stand 51, Sample Plot B.

Photograph 103

Date: April 18, 2013
Comments: Stand 52, Sample Plot A.

Photograph 104

Date: April 18, 2013
Comments: Stand 52, Sample Plot B.

Photograph 105

Date: April 18, 2013
Comments: Stand 53, Sample Plot A.

Photograph 106

Date: April 18, 2013
Comments: Stand 53, Sample Plot B.

Photograph 107

Date: April 18, 2013
Comments: Stand 54, Sample Plot A.

Photograph 108

Date: April18, 2013
Comments: Stand 54, Sample Plot B.

Photograph 109

Date: April 18, 2013
Comments: Stand 55, Sample Plot A.

Photograph 110

Date: April 18, 2013
Comments: Stand 55, Sample Plot B.

Photograph 111

Date: May 16, 2013
Comments: Stand 56, Sample Plot A.

Photograph 112

Date: May 16, 2013
Comments: Stand 56, Sample Plot B.

Photograph 113

Date: May 16, 2013
Comments: Stand 32, Sample Plot C.

APPENDIX E

MARYLAND DEPARTMENT OF NATURAL RESOURCES CERTIFICATION

MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Eric Schwaab, Deputy Secretary

April 23, 2009

Bridgette Garner
25 Old Solomons Island Rd
Annapolis, MD 21401

Dear Ms Garner:

The Maryland Department of Natural Resources has reviewed your application for qualified professional status for the purpose of developing Forest Stand Delineations and Forest Conservation Plans. We are happy to inform you that you meet the requirements of COMAR 08.19.06.01 for qualified professional status.

Your name will be included on a list of qualified professionals to be sent to the jurisdictions with authority to review Forest Stand Delineations and Forest Conservation Plans.

Participation by professionals like you is key to successful implementation of the Forest Conservation Act. Thank you for submitting your application.

Sincerely,

Steven W. Koehn

Steven W. Koehn
Director/State Forester